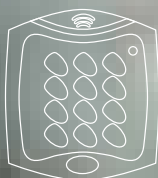


**ACT**

Access Control Technology

Access  
Control



Entry



stand  
alone



pro

smart

# ACT PRODUCT 2011 CATALOGUE

Innovation and cost effective access control solutions are the corner stones on which the ACT business has been developed. We are committed to bringing you secure, robust and aesthetically pleasing products that fulfil access control requirements for domestic dwellings, medium size businesses and large scale enterprises spread over multiple sites.

ACT supplies Access Control and Door Entry products to the market. This catalogue has been put together to provide a comprehensive overview of all products available from ACT, both own brand and third party. It also includes helpful installation tips and schematics to highlight how the products work together.

The **Access Control** products are sold under the brands **standalone**, **smart** and **pro**. The **standalone** products are suited to doors where the only requirements are entry and exit. With a variety of features they offer a low cost access control solution for both domestic and commercial properties. The **smart** range is designed to be a cost effective and highly flexible access control system for small to medium sized commercial buildings and can operate as standalone or networked. The

**pro** products provide a highly flexible, scalable access control system designed to facilitate the most demanding requirements for any size enterprise.

The Door **Entry** products are sold under the **Entry** brand. Entry products are designed for both domestic and commercial properties. They use audio and audio video over IP to enable the identity of the visitor to be determined prior to granting access.

ACT offers a high level of product support through a wide range of ancillary services including Technical Support, Training, On Site Support, Tender & Specification Consultation, Bespoke System Design and System Integration Solutions.

**Eilish Minihane**  
Marketing Executive, ACT



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ACT 433TX Transmitter (Long range)	high security rolling code transmission, range of up to 50m (site dependant)	10
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ACT 433TX Transmitter	high security rolling code transmission, range of up to 50m (site dependant)	26
ACT 433TXprox Transmitter with proximity	built in ACT proximity, high security rolling code transmission, range of up to 50m (site dependant)	26
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ACTpro 3000	2 door controller expandable to 16 doors using ACTpro door stations, built-in TCP/IP to facilitate connection via Ethernet, networkable up to 2,000 doors, 30,000 card holders and 1,000 user groups, programming is facilitated by an on-board keypad or a PC	29
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# Standalone Digital Keypads

## ACT 10 Digital Keypad

### Features

- pin only digital keypad
- 10 user codes
- 2 user groups
- push to exit input
- incorrect code lockout
- door monitoring / contact input
- tamper output
- fire alarm override
- interlock
- toggle mode
- 12 - 24 Volt AC / DC supply
- 2 x 5 amp, 30 Volt DC relays
- 2 x 100 mA Darlington Driver outputs
- zinc diecast housing, stainless steel keys
- keypad backlighting
- indoor / outdoor (IP54)



**Product Code** ACT 10

*(includes digital keypad, 2 varistors & manual)*

### Related Products

ACT 10 Flush Kit p 3

ACT 10 Weather Shield p 3

## ACT 5 Digital Keypad

### Features

- pin only digital keypad
- 10 user codes
- push to exit input
- incorrect code lockout
- toggle mode
- 5 amp, 30 Volt DC relay
- polycarbonate housing, stainless steel keys
- keypad backlighting
- potted electronics
- indoor / outdoor (IP67)
- surface / flush mount options
- mounts on to standard single gang electrical back box



**Product Code** ACT 5

*(includes digital keypad, flush mount plate, surface mount collar, 1 varistor & manual)*

For product comparison chart  
please see page 6

## ACT 5 (leaded) Digital Keypad

### Features

- pin only digital keypad with a 3m lead
- 10 user codes
- push to exit input
- incorrect code lockout
- toggle mode
- 5 amp, 30 Volt DC relay
- polycarbonate housing, stainless steel keys
- potted electronics
- indoor / outdoor (IP67)
- surface / flush mount options
- mounts on to standard single gang electrical back box

**Product Code** ACT 5L

(includes digital keypad, flush mount plate, surface mount collar, 1 varistor & manual)



## Digital Keypad + Proximity (125 kHz)

### ACT 5prox Pin & Proximity

### Features

- pin & proximity digital keypad
- 50 user codes & 50 cards / fobs
- push to exit input
- incorrect code lockout
- toggle mode
- 5 amp, 30 Volt DC relay
- polycarbonate housing with stainless steel keys
- keypad backlighting
- potted electronics
- indoor / outdoor (IP67)
- surface / flush mount options
- mounts on to standard single gang electrical back box

**Product Code** ACT 5prox

(includes digital keypad, flush mount plate, surface mount collar, 1 varistor & manual)



### For use with ACT 5prox

for a full list of ACT cards & fobs see page 69



For more information see [www.accesscontrol.ie/standalone](http://www.accesscontrol.ie/standalone)

# Keypad Accessories

## ACT 10 Flush Kit

### Features

- Stainless steel flush mount kit for the ACT 10 digital keypad

**Product Code** ACT 10FK



## ACT 10 Weather Shield

### Features

- Stainless steel weather shield cover plate for the ACT 10 digital keypad

**Product Code** ACT 10WS

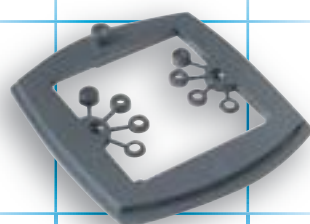


## Flush Mount Plate

### Features

- flush mount plate for the ACT 5 / 5prox
- fits standard single gang electrical back box

**Product Code** included with device

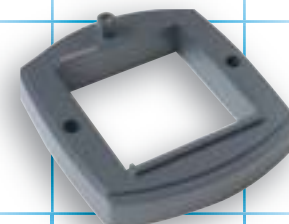


## Surface Mount Collar

### Features

- surface mount collar for the ACT 5 / 5prox
- fits standard single gang electrical back box

**Product Code** included with device

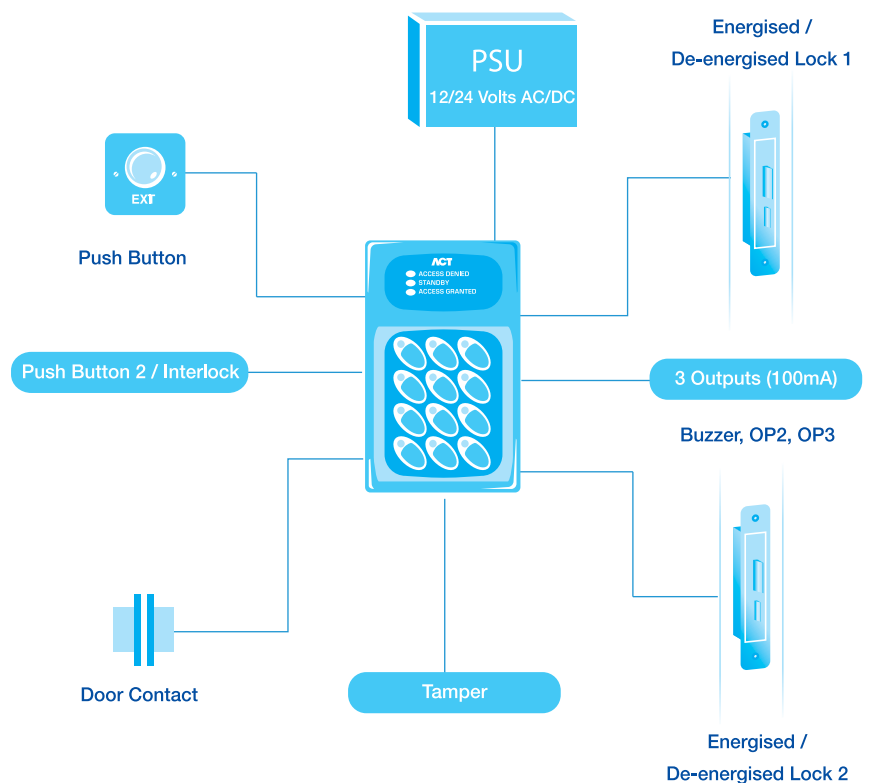


# Product Specification

	ACT 10 (Pin only)	ACT 5 (Pin only)	ACT 5prox (Pin & Prox)
Operating Voltage	12 - 24 Volts AC / DC	12 - 24 Volts AC / DC	12 - 24 Volts AC / DC
Current Consumption	40 / 120 mA	30 / 120 mA	60 / 100 mA
Output Current Sink	100 mA	n/a	n/a
Operating Temperature	- 10 to + 50 ° C	- 10 to + 50 ° C	- 10 to + 50 ° C
Door Open Time	0 - 255 seconds	0 - 255 seconds	0 - 255 seconds
Relay Contact Rating	2 x 5A / 30 Volt	5A / 30 Volt	5A / 30 Volt
Weight	633 gms	150 gms	166 gms
Dimensions (H x W x D, mm)	138 x 87 x 37	100 x 110 x 35	100 x 110 x 35
Mounting	surface / flush options	surface / flush	surface / flush
Installation	indoor / outdoor (IP54)	indoor / outdoor (IP67)	indoor / outdoor (IP67)
Construction	zinc diecast housing, stainless steel keys	rugged polycarbonate housing, stainless steel keys, potted electronics	

## Product Schematics

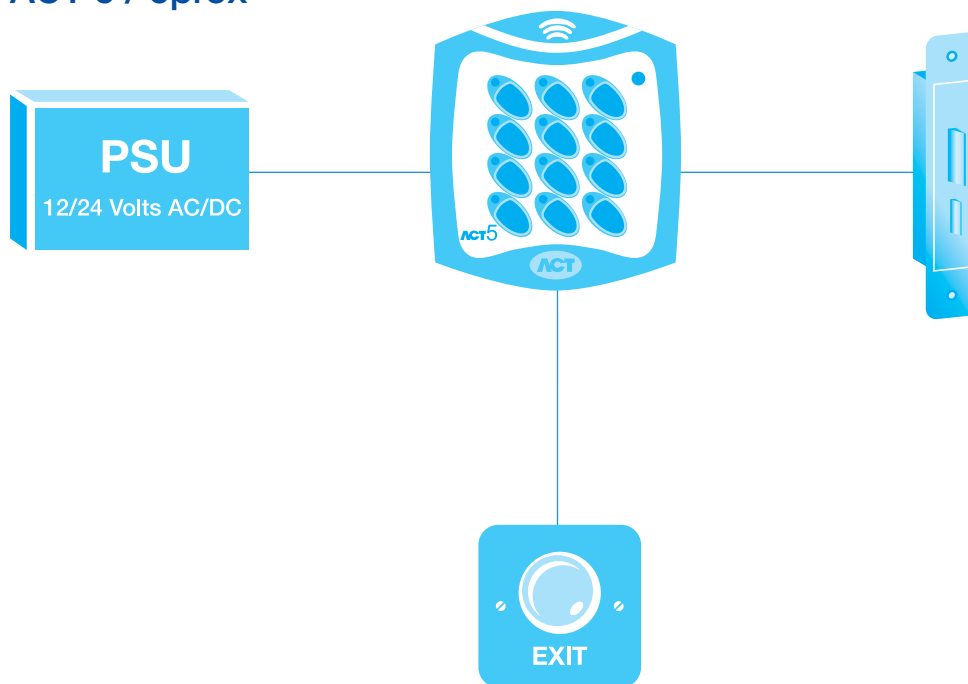
### ACT 10 Digital Keypad



For built in electronic  
inputs / outputs use a DC  
supply for full functionality

# Product Schematics cont'd

## ACT 5 / 5prox



## Installation Notes

### ACT 5 / ACT 5prox / ACT 5 Leaded

- Require operating voltage of 12 - 24 volts AC or DC
- 5 amp lock output
- Indoor / outdoor installation (IP67)
- Operating Temperature: -10 to +50 C
- Can be surface or flush mounted

### ACT 10

- The ACT10 requires an operating voltage of 12 - 24 volts AC or DC
- 2 x 5amp relay outputs
- Indoor / outdoor installation (IP54)
- Operating Temperature: -10 to +50 C
- For full functionality use a 12 Volt DC power source

# Product Comparisons

Please use these cross reference charts to help you choose the device which most suits your needs.

	ACT 10 (Pin only)	ACT 5 (Pin only)	ACT 5 (Leaded)	ACT 5prox (Pin & Prox)
Doors	2	1	1	1
Users	10	10	10	50
Pin Only	✓	✓	✓	✓
Pin & Card				✓
Pin or Card				✓
Card Only				✓
Keypad Backlighting	✓	✓		✓
Push to exit	✓	✓	✓	✓
Door Monitoring	✓			
Fire Alarm Override	✓			
Interlock	✓			
Toggle Mode	✓	✓	✓	✓
Door Relay Output	5 amp	5 amp	5 amp	5 amp
Programmable Inputs	2			
Programmable Outputs	2			
Push to release button input	✓	✓	✓	✓
Tamper Output	✓			
12 - 24 Volt DC or AC input	✓	✓	✓	✓
IP Rating	IP54	IP67	IP67	IP67
Door Forced / Door Ajar	✓			
Change Relay Timer	✓	✓	✓	✓
Duress Code	✓			

# ACTsmart2 Reader/Controllers (125kHz)

## Features

- standalone / master slave / networkable
- programmable inputs/outputs: push to exit, door monitoring / door contact, door alarm (ajar / forced), fire alarm override, interlock
- tamper output
- 5 amp, 30 Volt DC relay
- smartlock option for added security (see p 9)
- indoor / outdoor (IP67)
- mounts on standard single gang electrical back box
- can be programmed using
  1. a programming card (standalone, see p 13)
  2. the master keypad (master slave, see p 13)
  3. ACTWin smart software (network, see p 14)

## ACTsmart2 1070 Proximity

### Features

- panel mount proximity reader / controller
- 1,000 users
- Robust polycarbonate housing
- surface / flush mount options

For a full list of ACT cards and fobs see p 69



**Product Code** ACTsmart2 1070  
(includes reader / controller, flush mount plate, surface mount collar, 1 varistor & manual)

## ACTsmart2 1070PM Proximity

### Features

- Proximity reader / controller
- 1,000 users
- Polycarbonate front plate
- Mounts into the ACTentry V-IP and other industry standard audio video panels

**Product Code** ACTsmart2 1070PM  
(includes reader / controller, 1 varistor & manual)



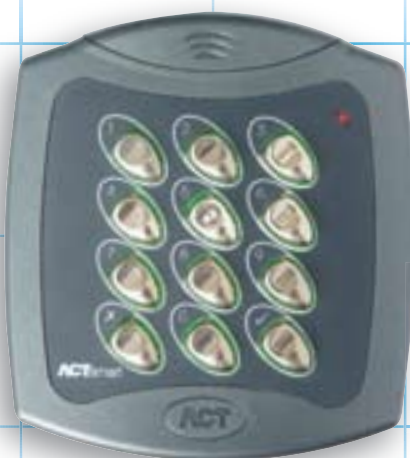


## ACTsmart2 1080 Pin & Proximity

### Features

- pin & proximity reader / controller
- 1,000 users (500 if pin & prox)
- robust polycarbonate housing, stainless steel keys
- keypad backlighting
- surface / flush mount options

**Product Code** ACTsmart2 1080  
(includes reader / controller, flush mount plate, surface mount collar, 1 varistor & manual)



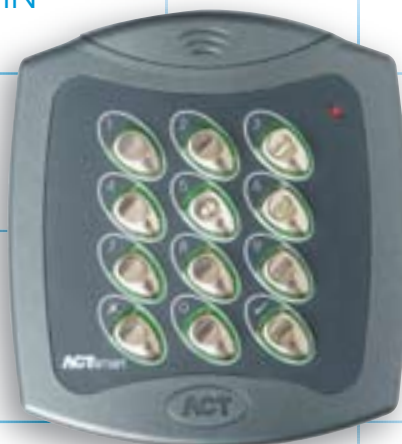
## Readers / Controller

## ACTsmart2 1090 PIN

### Features

- pin reader / controller
- 1,000 users
- polycarbonate housing, stainless steel keys
- keypad backlighting
- surface / flush mount options

**Product Code** ACTsmart2 1090  
(includes keypad, flush mount plate, surface mount collar, 1 varistor & manual)



### Related Products

HIDsmart reader / controllers are also available.  
Ask Sales for further information.

**For product comparison chart see page 18**

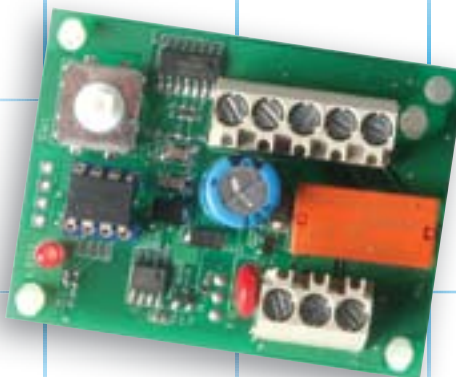
# Reader / Controller Accessories

## ACTsmart2 Lock

### Features

- enhances security of ACTsmart2 installations by locating the relay inside the building (typically in PSU)
- relay only operated when a valid card / pin is presented to ACTsmart2 reader
- Led status indicator
- for more details see p 19

**Product Code** ACT smart2 Lock



## Panel Mount Flush Plate

### Features

- flush plate for the ACTsmart2 1070PM
- stainless steel / brass
- fits standard single gang electrical back box

**Product Code** ACT PM FLUSHPLATE

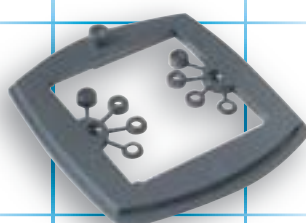


## Flush Mount Plate

### Features

- flush mount plate for ACTsmart2 readers
- fits standard single gang electrical back box

**Product Code** included with device

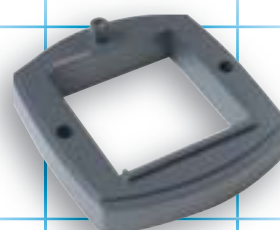


## Surface Mount Collar

### Features

- surface mount collar for ACTsmart2 readers
- fits standard single gang electrical back box

**Product Code** included with device



# Radio Receiver

## ACT 433RX Long Range Receiver

### Features

- integrates with ACTsmart2 and ACTpro-X readers
- integrates with 3rd party systems
- range of up to 50 m (site dependant)
- 2 channel receiver
- supports "Clock & Data" and "37 bit Wiegand" output
- 5 - 12 Volt DC
- polycarbonate housing
- indoor / outdoor (IP67)
- surface / flush mount options
- mounts on standard single gang electrical back box



**Product Code** ACT 433RX  
(includes long range receiver, flush mount plate, surface mount collar & manual)

# Radio Transmitters

## ACT 433TX

### Features

- high security rolling code transmission
- range of up to 50m (site dependant)
- 2 button battery powered radio devices
- battery used: two CR2032

**Product Code** ACT 433TX



## ACT 433TXprox

### Features

- all the functions of the ACT 433TX
- built in ACT proximity fob for use with ACTsmart2 & ACTpro-X readers

**Product Code** ACT 433TXprox



# Network Controller

## ACTsmart2 Network Controller

### Features

- required for ACTsmart2 software
- can control up to 8 ACTsmart2 devices
- 1000 users
- 16 User groups
- 1000 log events
- 12 Volt DC
- polycarbonate housing
- LED indicators
- indoor only

**Product Code** ACTsmart2  
CTROLL

*(includes network controller, software, serial lead & manual)*



## Software

## ACTsmart2 Software

### Features

- windows software for configuring & monitoring up to 8 ACTsmart2 devices to work in conjunction with ACTsmart2 network controller
- 16 user groups
- up to 4 time zones per user group to a max of 16
- 100,000 event log
- access control reports
- password protection
- upload facility
- photo ID for each user
- built-in translator
- software and serial lead supplied with ACTsmart2 network controller
- Windows 7, Vista, XP, 2003, 2000

**Product Code** ACTsmart2  
Software



Only operates with ACTsmart2 systems

### Minimum PC Specification for ACTsmart2 Software

- Windows 7, Vista, XP, 2003, 2000
- Pentium 4 (300Mhz or better)
- RAM: 512Mb or better
- CD-ROM Drive
- 1 serial port

# Product Specifications

## ACTsmart2 1070 / 1070PM / 1080 / 1090 Reader / Controller

<b>Operating Voltage</b>	12 - 24 Volt AC or DC
<b>Current Consumption</b>	60 / 100 mA
<b>Output Current Sink</b>	100 mA
<b>Operating Temperature</b>	-25 to +60°C
<b>Door Open Time</b>	0 – 255 seconds
<b>Programmable Inputs</b>	1
<b>Programmable Inputs/Outputs</b>	2
<b>Relay Contact Rating</b>	5 amp / 30 Volts
<b>Size (H x W x D, mm)</b>	100 x 110 x 35 (1070/1080/1090) 63x58x23 (1070PM)
<b>Weight</b>	173 grams (1070/1080/1090) 72 grams (1070PM)
<b>Mounting</b>	Surface / flush mount options (1070/1080/1090) Panel Mount (1070PM)
<b>Installation</b>	indoor / outdoor (IP67)
<b>Construction</b>	polycarbonate frontplate (1070PM) rugged polycarbonate housing (1070/1080/1090) potted electronics (1070/1070PM/1080/1090) stainless steel keys (1080/1090)
<b>ACTsmart2 per network (max)</b>	8
<b>Length of Network (max)</b>	1.4 km

## ACT 433RX Receiver

<b>Operating Frequency</b>	433.92 MHz
<b>Modulation</b>	FSK
<b>Supply Voltage</b>	5 Volts or 12 Volts
<b>Current Consumption</b>	60mA
<b>Range in free space (max)</b>	up to 50 metres
<b>Operating Temperature</b>	-20 to +70°C
<b>Dimensions (HxWxDmm)</b>	109 x 100 x 24
<b>Weight</b>	166 gms

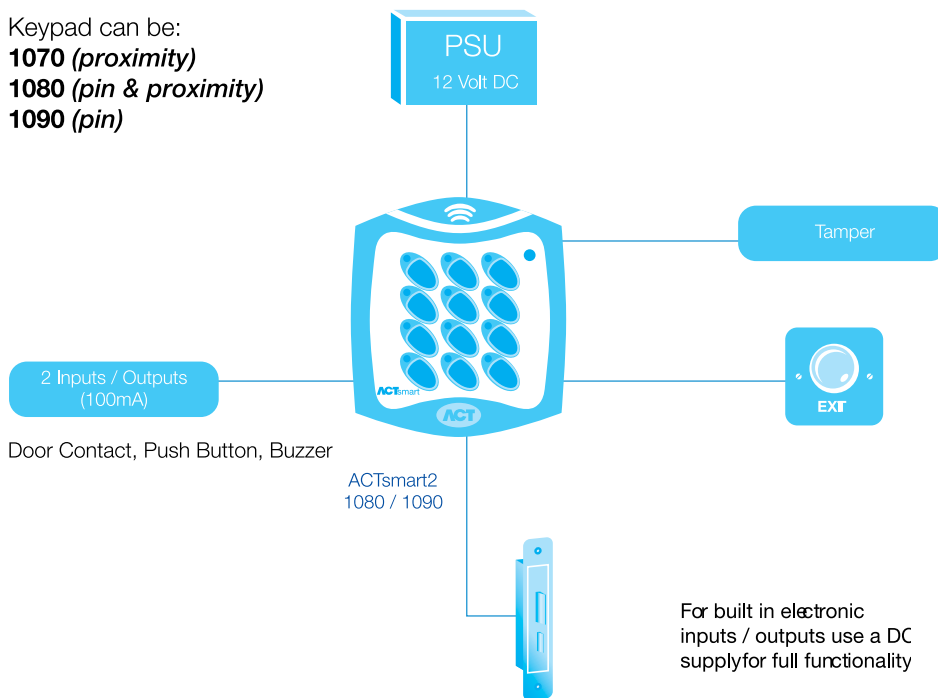
## ACT 433TX & TXprox Transmitters

<b>Operating Frequency</b>	433.92 MHz
<b>Modulation</b>	FSK
<b>Supply Voltage</b>	6 Volts
<b>Current Consumption</b>	4mA
<b>Range in free space (max)</b>	up to 50 metres
<b>Operating Temperature</b>	-20 to +70°C
<b>Dimensions (H x W x D, mm)</b>	71.5 x 42.5 x 16
<b>Weight</b>	20 grams
<b>E.R.P</b>	5uW
<b>Batteries</b>	Two CR2032
<b>Battery Life</b>	up to 2 years
<b>Transmission period</b>	2.3 seconds
<b>Transmission duration</b>	7 m seconds

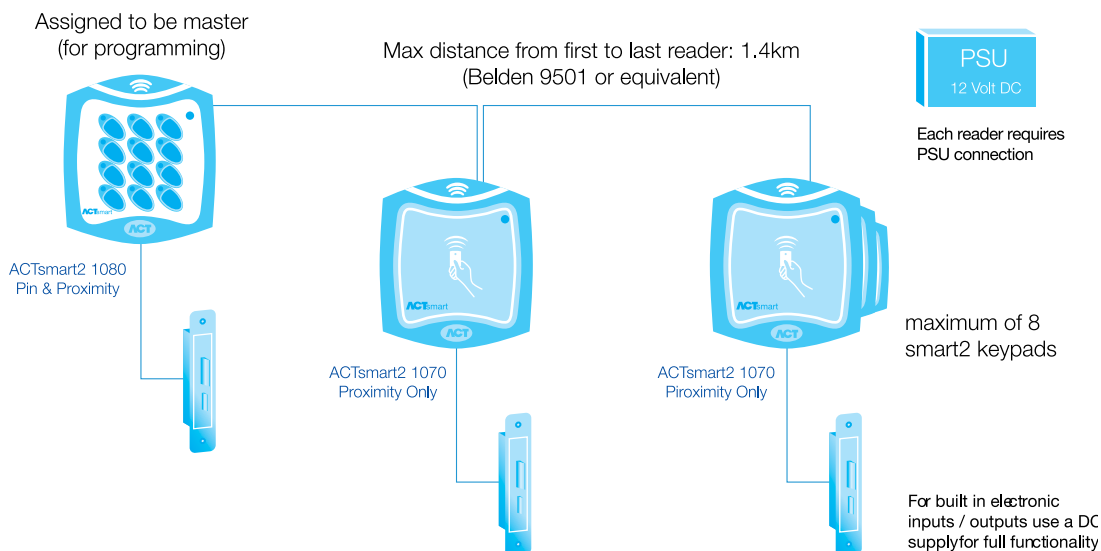
# Product Schematics

## ACTsmart2 Standalone Reader / Controller

Keypad can be:  
**1070 (proximity)**  
**1080 (pin & proximity)**  
**1090 (pin)**



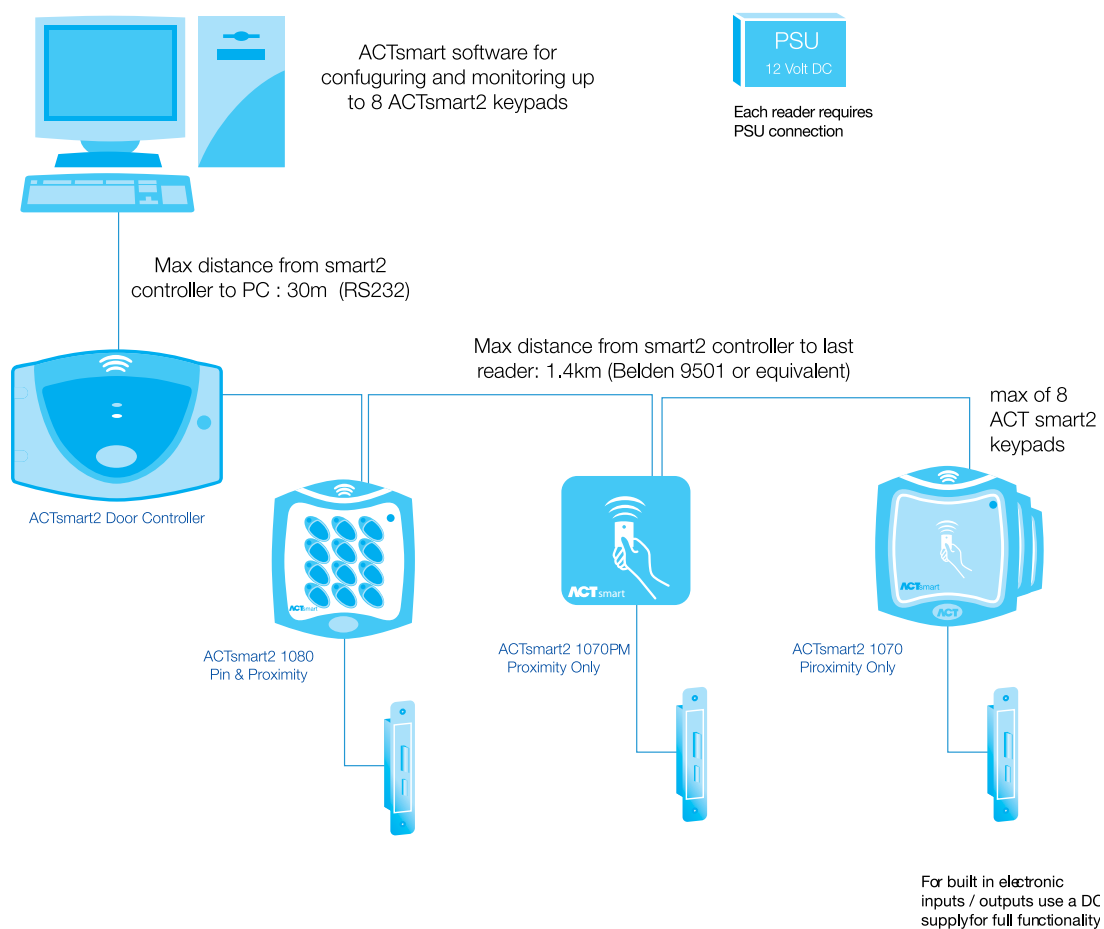
## ACTsmart2 1080 Master Slave Configuration



From	To	Network Type	Cable Type*	Comments
Master ACTsmart keypad/controller	ACTsmart keypad/controller	RS485	Screen twisted pair (STP) equivalent to Belden 9501 or shielded Cat 5.	Maximum distance 1.4 km

\* Note: If using UTP (Unshielded Twisted Pair) such as Cat 5 please ensure that the cable is not located near sources of electrical noise.

## ACTsmart2 Network Configuration



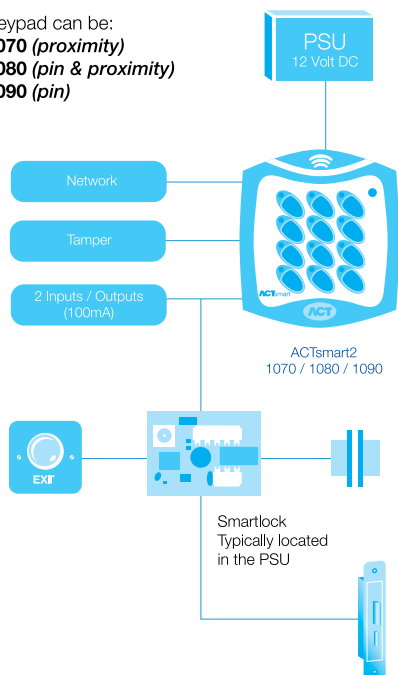
From	To	Network Type	Cable Type*	Comments
PC	ACTsmart controller	RS232	Screen twisted pair (STP)	Max distance 20m approx
ACTsmart controller	ACTsmart keypad/ controller(s)	RS485	Screen twisted pair (STP) equivalent to Belden 9501 or shielded Cat5.	Max distance 1.4 km

\* Note: If using UTP (Unshielded Twisted Pair) such as Cat 5 please ensure that the cable is not located near sources of electrical noise.



## ACTsmart2 Keypad / Controller with Smartlock

Keypad can be:  
**1070 (proximity)**  
**1080 (pin & proximity)**  
**1090 (pin)**



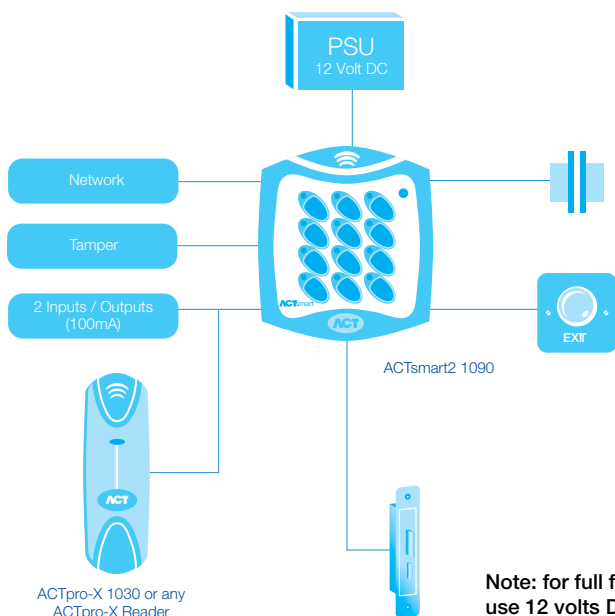
The use of the ACT Smartlock with the ACTsmart2 reader / controller will enhance the physical security by placing the lock relay in a more secure location, such as within a PSU that has tamper outputs.

The ACTsmart2 keypad / controller is installed on the unsecure side of the entry point and the Smartlock is installed on the secured side.

**Note: for full functionality use 12 volts DC only**

From	To	Network Type	Cable Type	Comments
ACTsmart keypad/controller	ACT smart Lock	ACT protocol	Twisted Screen Pair	Max distance 30m

## ACTsmart2 1090 with ACTpro-X 1030 Reader



The ACTsmart 2 1090 keypad / controller can operate in conjunction with any of the ACTpro-X family of readers to enhance physical security by protecting the lock relay from tampering. The ACTsmart2 1090 keypad / controller is installed on the secure side of the entry point and the ACTpro-X reader is installed on the unsecured side.

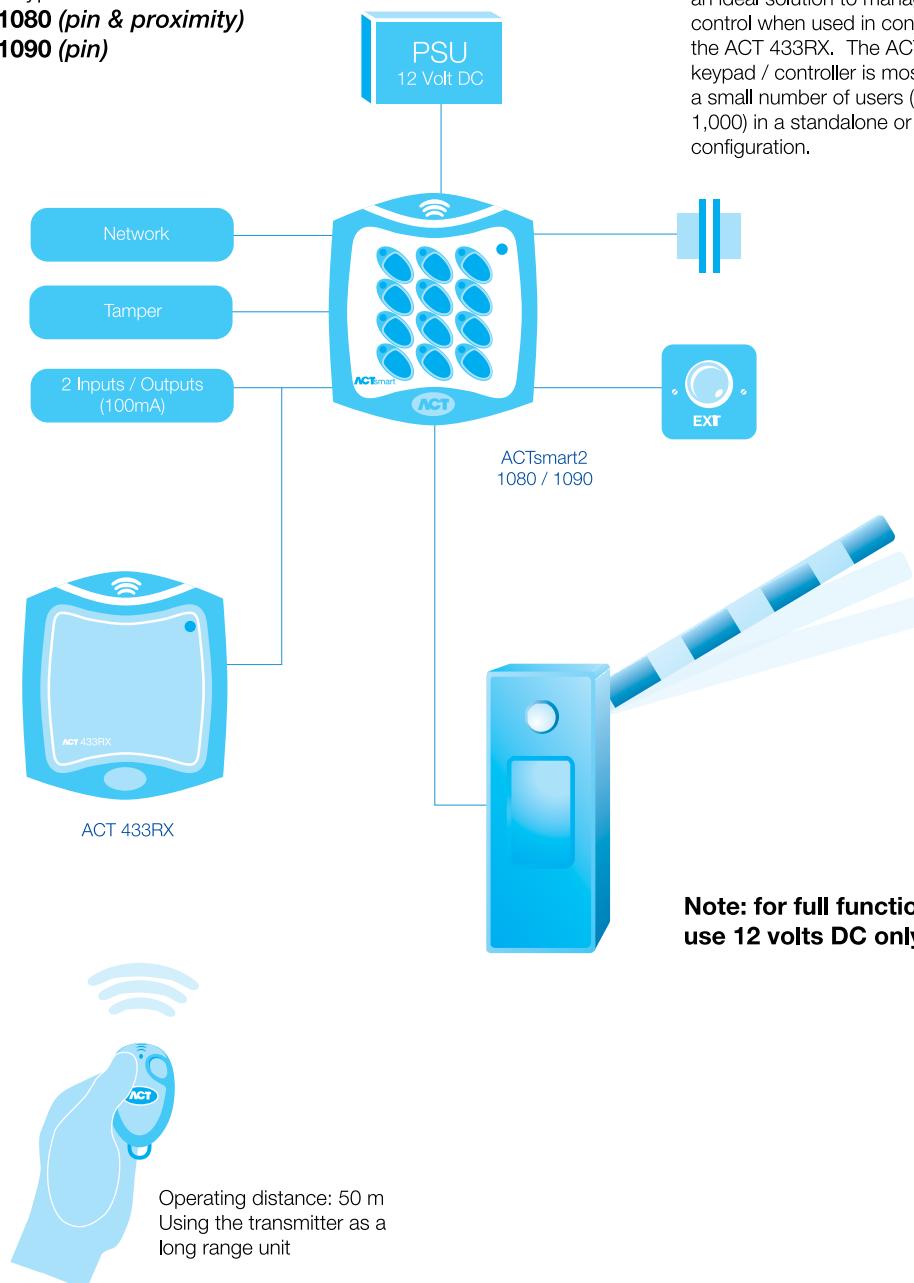
**Note: for full functionality use 12 volts DC only**

From	To	Network Type	Cable Type	Comments
ACTsmart controller	ACTpro-X reader	ACT protocol	8 core Screen	Max distance 100m



## ACTsmart2 with ACT 433RX Long Range Reader

Keypad can be:  
**1080 (pin & proximity)**  
**1090 (pin)**



The ACTsmart 2 keypad / controller is an ideal solution to manage barrier control when used in conjunction with the ACT 433RX. The ACTsmart2 keypad / controller is most suitable for a small number of users (less than 1,000) in a standalone or master slave configuration.

**Note: for full functionality use 12 volts DC only**

Operating distance: 50 m  
 Using the transmitter as a long range unit

# Installation Notes

## Readers

ACTsmart2 1070 (RFID Prox only)

ACTsmart2 1070PM (RFID Prox only)

ACTsmart2 1080 (Pin and RFID prox)

ACTsmart2 1090 (PIN only)

- May be installed in exposed outdoor conditions (IP67)
- If the electronic outputs and inputs are to be used, or the master slave feature is required, ensure a DC supply to all units
- As there are up to 1,000 users available on the ACTsmart2 devices, the system administrator should keep good records to enable efficient addition and deletion of users
- When using the master slave option ensure that there is at least one ACTsmart2 1080 device when proximity is being used.

## Controller

ACTsmart2 Controller

- The ACTsmart2 controller is used when connecting the the ACTsmart readers/controller to a PC running the ACTSmart software.
- The ACTsmart2 controller will support a maximum of 8 access points.
- The maximum network cabling distance from the ACTsmart controller to the last ACTsmart readers/controller is 1.4 km of twisted screen pair or category 5
- The ACTsmart2 controller can only be connect to the PC via a serial (RS232) cable.

## Smart Lock

ACTsmart2 Lock

- Maximum distance of Data Line from ACTSmart2 Lock to ACTSmart2 device: 30 metres
- ACT recommends installing the ACTSmart2 Lock inside the power supply unit.

# Product Comparisons

Please use these cross reference charts to help you choose the device which most suits your needs.

	ACTsmart2 1070 (Prox only)	ACTsmart2 1070PM (Prox only)	ACTsmart2 1080 (Pin & Prox)	ACTsmart2 1090 (Pin only)
Doors	1	1	1	1
Users	1000	1000	1000 (500 Pin & Card)	1000
User Groups*	16	16	16	16
Pin Only			✓	✓
Pin & Card			✓	
Pin or Card			✓	
Card Only	✓	✓	✓	
Keypad Backlighting			✓	✓
Interlock	✓	✓	✓	✓
Door Monitoring**	✓	✓	✓	✓
Fire Alarm Override	✓	✓	✓	✓
Toggle Mode	✓	✓	✓	✓
Door Relay Output	5 amp	5 amp	5 amp	5 amp
Programmable Inputs	1	1	1	1
Programmable Inputs/ Outputs	2	2	2	2
Push to release input**	✓	✓	✓	✓
Tamper Output	✓	✓	✓	✓
12 - 24 Volt DC or AC**	✓	✓	✓	✓
IP Rating	IP67	IP67	IP67	IP67
Door Forced / Door Ajar	✓	✓	✓	✓
Smartlock	✓	✓	✓	✓
Standalone Operation	✓	✓	✓	✓
Master Slave Operation	✓	✓	✓	✓
PC Application	ACTWin Smart	ACTWin Smart	ACTWin Smart	ACTWin Smart
Change Relay Timer	✓	✓	✓	✓
Duress Code			✓	✓

\* When using the ACTsmart2 software each access point can have up to 16 user groups, with each user group having four different time zones (max of 16)

\*\* For full functionality use 12 Volt DC

ACT recommend that the ACT smart 1070 not be used as a standalone reader for large systems incase the cards need to be reentered.

# Proximity Readers (125 kHz)

## ACTpro-x 1030

### Features

- multi-format slimline proximity reader
- ACTProx cards and fobs supported
- HID cards and fobs supported
- "Clock & Data" or "Wiegand" Output
- tri-colour LED indication
- built-in bleep tone for audible indications
- 2 meter pigtail lead
- robust polycarbonate housing
- potted electronics
- indoor / outdoor (IP67)

**Product Code** ACTpro-X 1030  
(includes reader & manual)

For product comparisons please see p51



### Related Products

ACTpro-X 1030 Vandal Resistant Cover (p 21)

## ACTpro-x 1030PM

### Features

- multi-format panel mount proximity reader
- ACTProx cards and fobs supported
- HID cards and fobs supported
- "Clock & Data" or "Wiegand" Output
- tri-colour LED indication
- built-in bleep tone for audible indications
- robust polycarbonate front plate
- potted electronics
- indoor / outdoor (IP67)
- mounts on standard single gang electrical back box
- mounts into ACTentry V-IP and industry standard audio video panels

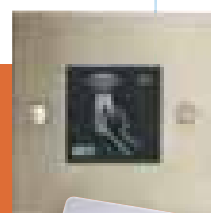
**Product Code** ACTpro-X 1030PM  
(includes reader & manual)



### Related Products

Panel Mount Flush Plate (p21)

For a full list of ACT cards and fobs see pages 69/70



## Proximity Readers (contd.) (125 kHz)

### ACTpro-x 1040

#### Features

- multi-format proximity only reader
- ACTProx cards and fobs supported
- HID cards and fobs supported
- "Clock & Data" or "Wiegand" Output
- tri-colour LED indication
- built-in bleep tone for audible indications
- robust polycarbonate housing
- potted electronics
- indoor / outdoor (IP67)
- surface / flush
- mounts on standard single gang electrical back box



**Product Code** ACTpro-X 1040  
(includes reader, flush mount plate, surface mount collar & manual)

For product comparisons please see p51

### ACTpro-x 1050

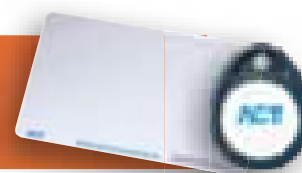
#### Features

- multi-format pin & proximity reader
- ACTProx cards and fobs supported
- HID cards and fobs supported
- "Clock & Data" or "Wiegand" Output
- tri-colour LED indication
- built-in bleep tone for audible indications
- robust polycarbonate housing
- keypad backlighting
- potted electronics
- indoor / outdoor (IP67)
- surface / flush
- mounts on standard single gang electrical back box



**Product Code** ACTpro-X 1050  
(includes reader, flush mount plate, surface mount collar & manual)

For a full list of ACT cards and fobs see pages 69/70



# Proximity Reader Accessories

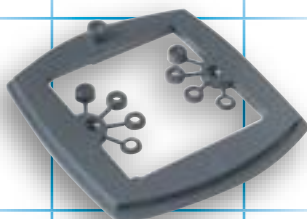
## Flush Mount Plate

### Features

- flush mount plate for ACTpro-X 1040 / 1050 / 1060
- fits standard single gang electrical back box

### Product Code

included with device



## Surface Mount Collar

### Features

- surface mount collar for ACTpro-X 1040 / 1050 / 1060
- fits standard single gang electrical back box

### Product Code

included with device



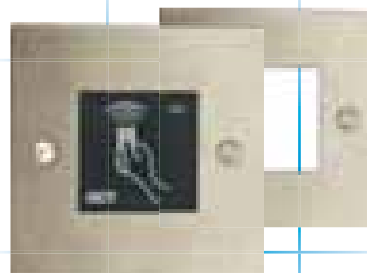
## Panel Mount Flush Plate

### Features

- flush plate for the ACTpro-X 1030PM
- stainless steel / brass
- fits standard single gang electrical back box

### Product Code

ACT PM Flushplate



## ACTpro-X 1030 Vandal Resistant Cover

### Features

- vandal resistant cover for ACTpro-X 1030

### Product Code

ACTpro-X 1030VR



## ACTpro-X USB Reader

### Features

- enable cards / fobs on ACTpro-X systems at the PC (ACTWin pro 2.2 and later)
- read RFID proximity card (125 kHz)
- cradle slot design to accept RFID card

### Product Code

ACTpro-X USB



For more information see [www.accesscontrol.ie/pro](http://www.accesscontrol.ie/pro)

# PIN Only Reader

## ACT<sup>pro</sup>-x 1060

### Features

- Pin only reader
- "Clock & Data" or "Wiegand" output
- Tri colour LED indications
- bleep tone for audible indications
- robust polycarbonate housing
- keypad backlighting
- potted electronics
- indoor / outdoor (IP67)
- surface / flush
- mounts on standard single gang electrical back box

**Product Code** ACTpro-X 1060  
*(includes reader, flush mount plate, surface mount collar & manual)*



## ACT<sup>pro</sup> 20

### Features

- pinpad for pin only use
- commonly used in conjunction with ACTpro 1010 for pin and swipe
- LED indications
- vandal resistant zinc diecast housing
- keypad backlighting
- indoor or outdoor (IP54)

**Product Code** ACTpro 20  
*(includes pin pad, 1 varistor & manual)*



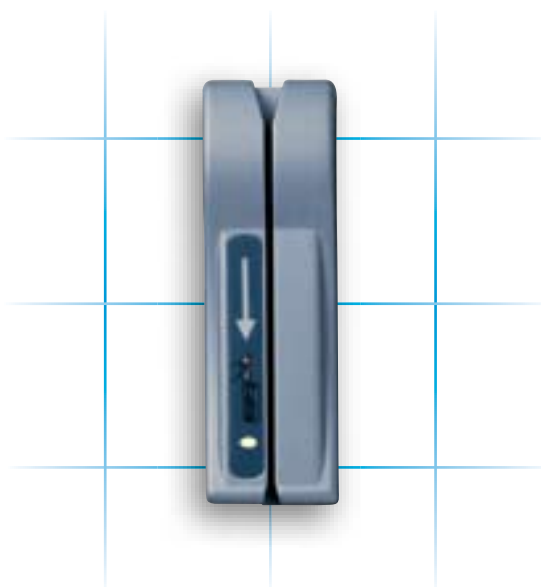
# Magnetic Swipe Reader

## ACTpro 1010

### Features

- track 2 magnetic swipe reader
- "Clock & Data" output
- Bi colour LED indications
- 2 meter pigtail lead
- vandal resistant zinc diecast housing
- potted electronics
- indoor or outdoor (IP67)

**Product Code** ACTpro 1010  
(includes reader & manual)



# Magnetic Swipe Card

## ACT Card

### Features

- swipe card (magnetic strip)
- suitable for printing
- ACT logo as standard (blank on request)
- supplied in packs of 10

**Product Code**  
ACT Card-B (Batch)





# Contactless Smart Card Readers

## (13.56 MHz)

### ACTpro mifare 1040

#### Features

- proximity only mifare reader
- configurable as "Serial", "Reverse Serial" or "Sector" reader
- default to read from sector 1
- 3rd party mifare cards & fobs supported
- tri-colour LED indication
- built-in bleep tone for audible indications
- robust polycarbonate housing
- potted electronics
- indoor / outdoor (IP67)
- surface / flush mount options
- mounts on standard single gang electrical back box

**Product Code** ACTpro MF 1040

*(includes reader, flush mount plate, surface mount collar & manual)*



### ACTpro mifare 1050

#### Features

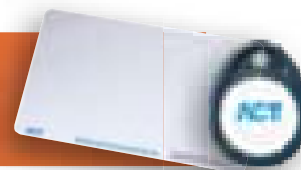
- pin & proximity mifare reader
- configurable as "Serial", "Reverse Serial" or "Sector" reader
- default to read from sector 1
- 3rd party mifare cards & fobs supported
- tri-colour LED indication
- built-in bleep tone for audible indications
- robust polycarbonate housing
- keypad backlighting
- potted electronics
- indoor / outdoor (IP67)
- surface / flush mount options
- mounts on standard single gang electrical back box

**Product Code** ACTpro MF 1050

*(includes reader, flush mount plate, surface mount collar & manual)*



For a full list of ACT cards and fobs see page 71



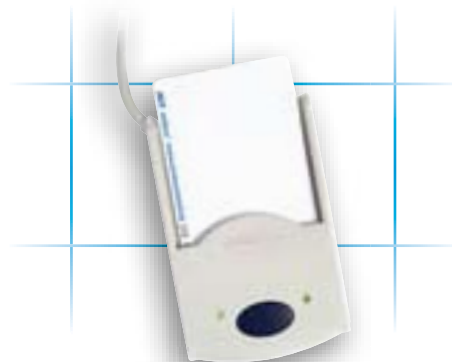
# Contactless Smart Card Readers (contd.) (13.56 MHz)

## ACTpro mifare USB Reader

### Features

- enable cards / fobs and programme sectors on ACTpro mifare cards
- 13.56 MHz frequency
- fast data transfer
- high data integrity

**Product Code** ACTpro MF USB



For a full list of ACT cards and fobs see page 71



## HID iClass R10 Reader

### Features

- proximity contactless smartcard reader
- "Clock & Data" or "Wiegand" output
- polycarbonate housing
- indoor / outdoor
- mullion mount
- 12 Volt DC

**Product Code** HID i class R10



## HID iClass R40 Reader

### Features

- proximity contactless smartcard reader
- "Clock & Data" or "Wiegand" output
- polycarbonate housing
- indoor / outdoor
- mounts on single gang back box
- 12 Volt DC

**Product Code** HID i class R40

## HID iClass RP40 Reader

### Features

- proximity contactless smartcard reader
- "Clock & Data" or "Wiegand" output
- polycarbonate housing
- indoor / outdoor
- mounts on single gang back box
- 12 Volt DC supply

**Product Code** HID i class RP40

For more information see [www.accesscontrol.ie/pro](http://www.accesscontrol.ie/pro)

## Radio Receiver

# ACT433 RX Long Range Receiver

### Features

- integrates with ACTpro-X and ACTsmart2 readers
- integrates with 3rd party systems
- range of up to 50m (site dependant)
- 2 channel receiver
- supports "Clock & Data" and "Wiegand" output
- 5 - 12 Volt DC
- polycarbonate housing
- indoor / outdoor (IP67)
- surface / flush mount options
- mounts on standard single gang electrical back box



**Product Code** ACT 433RX  
*(includes ACT 433RX receiver, flush mount plate, surface mount collar and product manual)*

## Radio Transmitters

# ACT 433TX

### Features

- high security rolling code transmission
- range of up to 50m (site dependant)
- 2 button battery powered radio devices
- battery used: two CR2032

**Product Code** ACT 433TX



# ACT 433TXprox

### Features

- all the functions of the ACT 433TX
- built in ACT proximity fob for use with ACTsmart2 & ACTpro-X readers

**Product Code** ACT 433TXprox



For more information see [www.accesscontrol.ie/pro](http://www.accesscontrol.ie/pro)  
 UK Lo-Call Number: 0845 300 5204

# Biometric Reader



## Biometric readers

The ACT controllers and door stations accept biometric devices that transmit data in Clock & Data or Wiegand format. Because of their ease of installation and integration the ACT controllers are frequently used with biometric devices from 3rd party manufacturers. Biometric devices that currently operate with the ACT controllers include finger print, palm/hand, face, retina (eye) readers.

For more information contact sales on +353 (0)1 466 2570 or UK Lo-call 0845 300 5204. Alternatively you can e-mail sales at [sales@accesscontrol.ie](mailto:sales@accesscontrol.ie)

**ACT**  
pro

# Door Controllers

## ACT<sub>pro</sub> 3200 (4 Door Controller)

### Features

- 4 door controller (expandable to 16 doors per controller)
- 30,000 users
- 1,024 user groups
- 3 Amp Regulated Power Supply with battery backup provision. Space for two 7Ahr batteries (not included).
- monitored and reported alert notifications on Controller LCD and ACTWin software
- Monitored power supply with automatic battery test
- Deep-Discharge protection of batteries
- fuse blown LED indication
- mains fault indication
- PC connection using the built in TCP / IP or serial (RS232) port or RS485 (RS485 to serial converter required)
- "Clock & Data" and "Wiegand" format readers
- supports ACTpro-X & 3rd party readers
- memory card slot allows additional functionality: door plan, extra user rights, distributed intelligence
- programmable inputs & outputs
- each door has a 5amp, 30 volt DC lock relay and a 1amp, 24 volt DC alarm relay
- Steel Cabinet (thickness 1.2mm) with hinged lid
- Cable Management System



For product comparisons  
please see p50

**Product Code**     ACTpro 3200

## Door Controllers (contd.)

### ACTpro 3000 (2 Door Controller)

#### Features

- 2 door controller expandable to 16 doors using ACTpro door stations
- 30,000 users
- 1,024 user groups
- networkable to 2000 doors
- PC connection using the built in TCP / IP or serial (RS232) port or RS485 (RS485 to serial converter required)
- serial port may be used to connect a printer
- "Clock & Data" and "Wiegand" format readers
- supports ACTpro-X & 3rd party readers
- memory card slot allows additional functionality: door plan, extra user rights, distributed intelligence
- requires 12 volt DC supply
- stores 5,000 log events
- monitored tamper of mains present
- programmable inputs & outputs
- each door has a 5amp, 30 volt DC lock relay and a 1amp, 24 volt DC alarm relay



**Product Code**     ACTpro 3000

**For product comparisons  
please see p50**

### ACTpro 3000 Memory Card

#### Features

- expand memory of ACTpro 3000
- adds additional functionality to the ACTpro 3000: door plan, extra user rights, distributed intelligence

**Product Code**     ACTpro 3000 MC

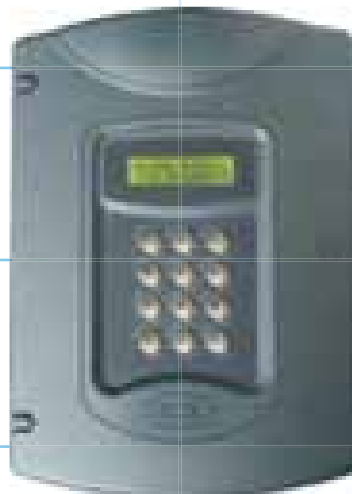
**For more information see [www.accesscontrol.ie/pro](http://www.accesscontrol.ie/pro)**

## Door Controllers (contd.)

### ACTpro 2000 (2 Door Controller)

#### Features

- 2 door controller expandable to 16 doors using ACTpro door stations
- 20,000 users
- 1,024 user groups
- networkable to 2,000 doors
- PC connection using serial (RS232) port or RS485 (RS485 to serial converter required)
- serial port may be used to connect a printer
- "Clock & Data" and "Wiegand" format readers
- supports ACTpro-X & 3rd party readers
- requires 12 volt DC supply
- stores 5,000 log events
- monitored tamper of mains present
- programmable inputs & outputs
- each door has a 5amp, 30 volt DC lock relay and a 1amp, 24 volt DC alarm relay



For product comparisons  
please see p50

**Product Code** ACTpro 2000

### ACTpro 1000 (Single Door Controller)

#### Features

- single door controller
- 10,000 users
- 16 user groups
- PC connection using serial (RS232) port or RS485 (RS485 to serial converter required)
- "Clock & Data" and "Wiegand" format readers
- supports ACTpro-X & 3rd party readers
- auxiliary door facility
- requires 12 volt DC supply
- monitored tamper of mains present
- programmable inputs & outputs
- 5amp, 30 volt DC lock relay



**Product Code** ACTpro 1000

For more information see [www.accesscontrol.ie/pro](http://www.accesscontrol.ie/pro)

# Door Station

## ACTpro 100 Single Door Station

### Features

- single door station / expander
- max of 14 door stations to each ACTpro 2000/3000
- programmable inputs and outputs: push button, door contact, interlock
- auxiliary relay output for alarms: door forced, door ajar, duress, door open, access granted, access denied
- LED status notification
- requires 12 volt DC supply
- indoor only
- 5amp, 30 volt DC lock relay and a 1amp, 24 volt DC alarm relay



**Product Code** ACTpro 100

## ACTpro 101 Single Door Station

### Features

- PCB only single door station / expander
- mounting holes compatible with ACTpro 200 and other industry standard 3<sup>rd</sup> party PSUs
- max 14 door stations to each ACTpro 2000/3000 door controller
- programmable inputs and outputs: push button, door contact, interlock
- auxiliary relay output for alarms: door forced, door ajar, duress, door open, access granted, access denied
- LED status notification
- requires 12 volt DC supply
- indoor only
- 5amp, 30 volt DC lock relay and a 1amp, 24 volt DC alarm relay



**Product Code** ACTpro 101



## ACTpro102 Two Door Station

### Features

- PCB only 2 door station / expander
- Mounting holes compatible with ACTpro 200 and other industry standard 3rd party PSU's
- Max of 14 door stations to each ACTpro 2000 / 3000 door controller
- programmable inputs and outputs: (push button, door contact, interlock)
- auxiliary relay output for alarms: door forced, door ajar, duress, door open, access granted, access denied
- LED status notification
- requires 12 Volt DC supply
- indoor only
- 5 amp, 30 Volt DV lock relay and a 1 amp, 24 Volt DC alarm relay

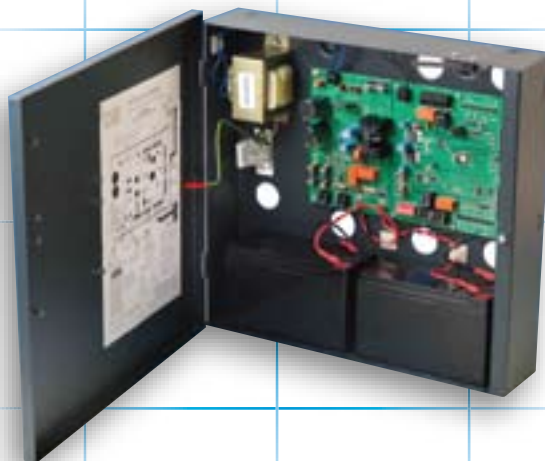


**Product Code**     ACTpro 102

## ACTpro200 Two Door Station

### Features

- two door station / expander
- controls 2 doors
- built-in 3 amp monitored PSU
- battery deep-discharge protection
- fuse blown LED indication
- 18 swg mild steel cabinet
- mains fault indication
- supports 2 x 7AHr batteries
- accommodates 2 x ACTpro 101/102
- mounting points for ACTpro 101/102 on lid
- supports entry / exit readers
- 2 x 1.25 Amp Volts regulated power supply outputs
- alarms are monitored via ACTpro door controller & ACTWin software
- each door has a 5amp, 30 volt DC lock relay and a 1amp, 24 volt DC alarm relay



**Product Code**     ACTpro 200

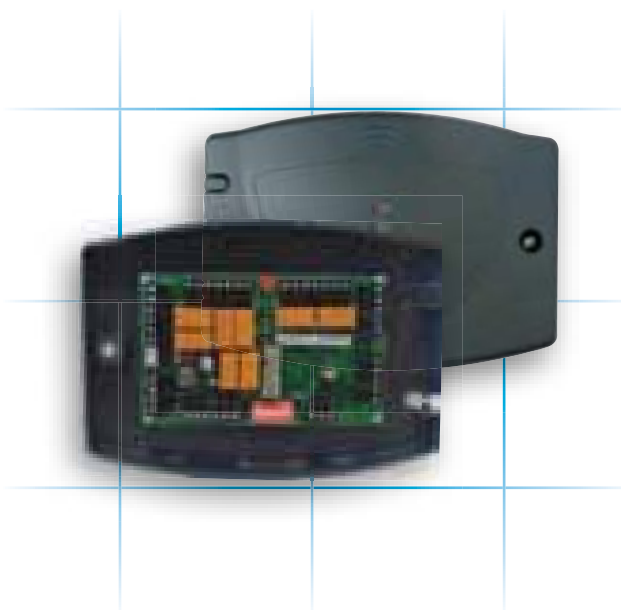
## Modules

### ACTpro IOM

#### Features

- 8 programmable input / output device
- max of 4 to each ACTpro 2000 / 3000 door controller
- 8 form C 5 Amp relays
- 8 supervised inputs
- tamper protection & 2 status LEDs
- output switched on/off by log, event, input, timezone
- ACTWin pro support
- use for elevator control. CCTV switches, alarm integration

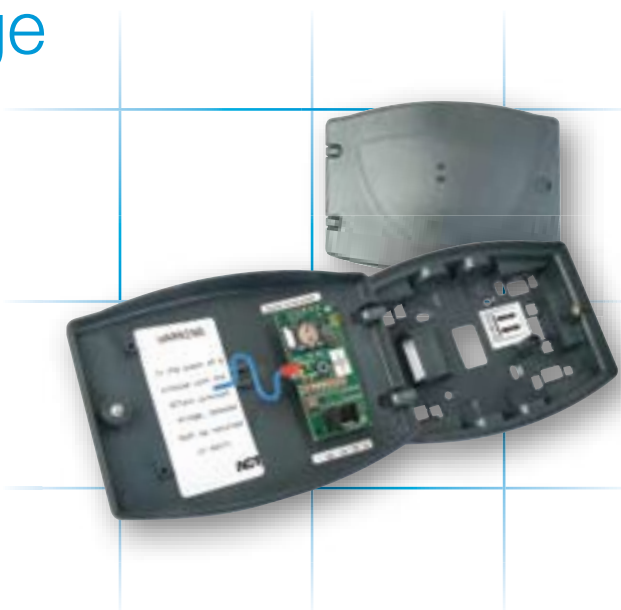
**Product Code** ACTpro IOM



## Wireless Bridge

#### Features

- Ideal for extending access control to a remote location that is difficult or expensive to cable
- Secure Bi-directional wireless communications on the door station network.
- 150m range line-of-site
- For use on the ACTpro door stations network
- Uses the 868MHz band
- Wireless bridge devices are paired; Sold as a pair and must be returned as a pair
- No more than 10 doors or IO modules (10 addressable devices) supported on the doors network with a wireless bridge
- Requires firmware version 1.29 on the ACTpro 3000, 4.26 on the ACTpro 3000 and firmware 1.29 on the ACTpro 3200 4 door controller.



**Note:** Before ordering contact ACT Customer Service department regarding the suitability of using the Wireless bridge.  
+353 (0)1 466 2570 or  
UK Lo-Call 0845 300 5204

# Software

## ACTWin Lite

### Features

- Unlimited log events (dependant on the capability of the PC)
- connect to locations via TCP/IP, serial interface or modem
- report generation
- challenge
- card editor & printing (with barcode & magnetic stripe)
- supports MS Access or MS SQL formatted databases
- supports Windows 7, 2008, XP, Vista, 2003

**Product Code**     ACTWin Lite

ACTWin Lite is available to download from our website

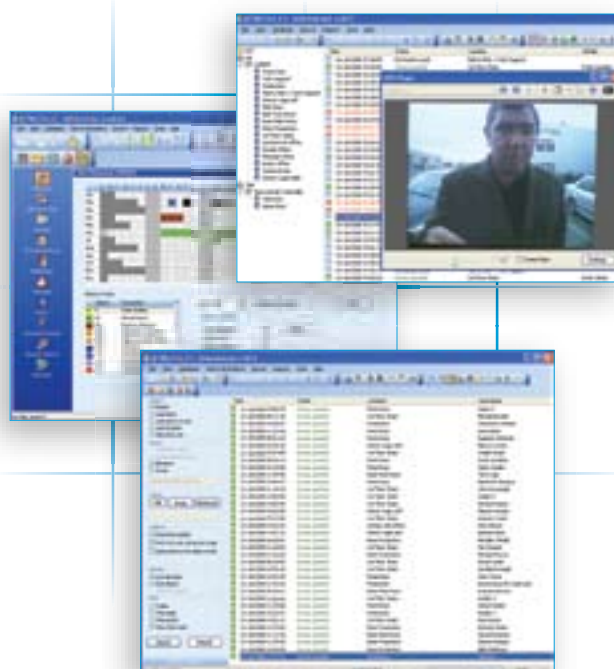
[www.accesscontrol.ie](http://www.accesscontrol.ie)

## ACTWin pro

### Features

- all functions of ACTWin Lite plus
- 2,000 doors
- supports 200 different locations
- multiple clients can connect to database
- audit trail
- DVR integration (from 2.4)
- time & attendance (from 2.3)
- ACTWeb browser based interface for managing users and reporting (from 2.5)
- site maps (from 2.7)
- 2 workstation licenses included

**Product Code**     ACTWin pro



## ■ Card Editor

ACT Card Editor enables the operator to design templates for printing ID cards. The card can then be printed from ACTWin. Card Editor is available with ACTWin 2.1 & later.

## ■ Intruder Alarm Integration

ACT Controllers (ACTpro 3000/ACTpro 2000/ACTpro 1000) may be integrated with intruder alarm panels to arm and disarm. While the door is armed, no access is permitted. Intruder Alarm Integration is available with ACTWin 2.1 & later and it requires a keypad to be connected to the door (ACTpro-X 1050 Pin & Prox or ACTpro-X 1060 Pin).

## ■ Elevator Control

Elevator Control allows the operator to specify which floors the holder of a specific card / fob has access to. Elevator Control is available with ACTWin 2.1 & later and it requires an input / output module to be connected directly to the elevators control unit.

## ■ Time and Attendance (Time on Site) Report

The T & A (Time on Site) report provides information on each user regarding the time they clocked in, the time they clocked out and the total time in between these activities. Time and Attendance (Time on Site) Report is available with ACTWin pro 2.3 & later.

## ■ DVR Integration

Integrating the CCTV Digital Video Recorder (DVR) with the Access Control system over TCP/IP provides an operator the capability to verify controlled events by retrieving CCTV footage directly from the DVR. DVR Integration is available in ACTWin pro 2.4 & later  
Compatible DVR: Dedicated Micros NetVu

## ■ Break Glass Monitoring

The Break Glass detection option allows the customer to monitor and report when the Break Glass device has been activated. Break Glass Monitoring is available with ACTWin 2.7 & later.

## ■ Site Maps

ACT Sitemaps displays normal door activity including all alarm conditions such as a door forced, door ajar event, etc directly on a graphical representation of the building. Sitemaps are available with ACTWin 2.7 & later.

## Software (contd.)

# ACTWin pro Workstation

### Features

- additional operator work station
- first 5 users require a license.  
Unlimited users after 5.

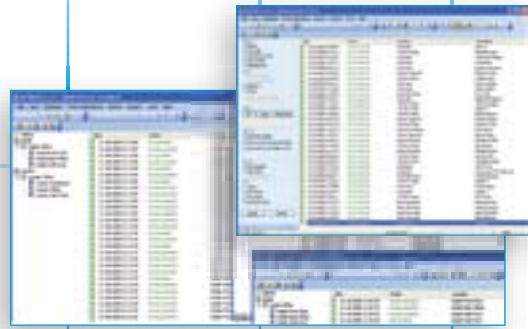
**Product Code**     ACTWin pro W/S

# ACTWin pro Multi Tenant

### Features

- allows the system to be partitioned for simpler administration
- define up to 200 separate tenants
- log events that occur to other tenants are not displayed
- in the event of a fire occurring in one tenant the muster report is only generated for users of that tenant
- module for ACTWin pro 2.4 and later

**Product Code**     ACTWin pro M/T



# ACTWin pro Time & Attendance

## Features

- audit trail, employee time and attendance calculations, absentees reports, holiday management
- report generation
- European Working Time Directive compliance
- Bradford Factor Calculation
- export information to payroll applications
- module for ACTWin pro 2.3 and later



**Product Code**     ACTWin pro T & A

**The ACT Time & Attendance Module is not suitable if you require the following:**

- Reporting of different shift and overtime patterns
- Reporting of rolling shifts (those that extend over midnight)
- A link into payroll systems
- The ability to export reports in a format other than as a .csv file

For those customers whose requirements are not met by the ACT Time & Attendance module, we have done extensive work with Thinking Software. Thinking software integrates directly with the ACT database (SQL), using the access log events to generate time and attendance events.

	ACTWin Lite	ACTWin pro
Doors	64	2,000
User Groups	1,024	1,024
Event Log	Infinite	Infinite
Anti Passback Support	✓	✓
Report: Roll Call	✓	✓
Report: Time & Attendance	✓	✓
Local & Remote Sites	Limited	✓
User Tracking	✓	✓
Audit Trail		✓
PC Users	1	5*
Password Protection	✓	✓
TCP / IP	✓	✓
Modem Connection	✓	✓
Multi Tenant Module		✓
Card Editor	✓	✓
T & A Module		✓
ACT Web		✓
Challenge	✓	✓
DVR Integration		✓
Photo-ID	✓	✓
Client Server		✓
Site Maps		✓

\* First 5 users require a license.  
Unlimited users after 5.

For more information see [www.accesscontrol.ie/pro](http://www.accesscontrol.ie/pro)

ACT  
pro

# Network & Communication Devices

## ACT Lan

### Features

- TCP / IP unit to facilitate connection of ACTpro 1000 / 2000 controllers to Lan
- supplied with power pack, serial lead and PC interface leads

**Product Code** ACT Lan



## ACT Single Channel Interface

### Features

- Single channel RS232 to RS485 network interface
- RS232 to RS485 converter
- supplied with serial and PC interface cables
- requires 12 Volt DC supply (included)

**Product Code** ACT Net IF-1



## ACT 4 Channel Interface

### Features

- 4 channel RS232 to RS485 network interface
- RS232 input with 4 x RS485 outputs
- dedicated 1 amp 12V PSU, complete with serial lead and housing

**Product Code** ACT Net IF-4





# Product Specification

Door Controllers	ACTpro 1000	ACTpro 2000	ACTpro 3000	ACTpro 3200
<b>Operating Voltage</b>	12 Volts DC	12 Volts DC	12 Volts DC	12 Volts DC
<b>Current Consumption</b>	40 / 150 mA	120 / 230 mA	120 / 230 mA	120 / 230 mA
<b>Output Current Sink</b>	100 mA	100 mA	100 mA	100 mA
<b>Operating Temperature</b>	-10 to + 50 ° C	-10 to + 50 ° C	-10 to + 50 ° C	-10 to + 50 ° C
<b>Controller Weight</b>	750 gms	700 gms	700 gms	5.88 kg
<b>Controller Size</b> (H x W x D, mm)	138 x 87 x 37	270 x 190 x 60	270 x 190 x 60	355 x 370 x 85
<b>Mounting</b>	Surface / Flush	Surface	Surface	Surface
<b>Installation</b>	Indoor	Indoor	Indoor	Indoor
<b>Construction</b>	zinc diecast housing with stainless steel keys	Robust polycarbonate housing with stainless steel keys	Robust polycarbonate housing with stainless steel keys	Steel housing with stainless steel keys

## ACT 433RX Receiver

<b>Operating Frequency</b>	433.92 MHz
<b>Modulation</b>	FSK
<b>Supply Voltage</b>	5 Volts or 12 Volts
<b>Current Consumption</b>	60mA
<b>Range in free space (max)</b>	50 metres
<b>Operating Temperature</b>	-20 to +70°C
<b>Dimensions</b> (HxWxDmm)	109 x 100 x 24
<b>Weight</b>	166 gms

## ACT 433TX & TXprox Transmitters

<b>Operating Frequency</b>	433.92 MHz
<b>Modulation</b>	FSK
<b>Supply Voltage</b>	6 Volts
<b>Current Consumption</b>	4mA
<b>Range in free space (max)</b>	50 metres
<b>Operating Temperature</b>	-20 to +70°C
<b>Dimensions</b> (H x W x D, mm)	71.5 x 42.5 x 16
<b>Weight</b>	20 gms
<b>E.R.P</b>	5uW
<b>Batteries</b>	Two CR2032
<b>Battery Life</b>	2 years (normal usage)
<b>Transmission period</b>	2.3 sec.
<b>Transmission duration</b>	7m sec.

For more information see [www.accesscontrol.ie/pro](http://www.accesscontrol.ie/pro)

ACTpro

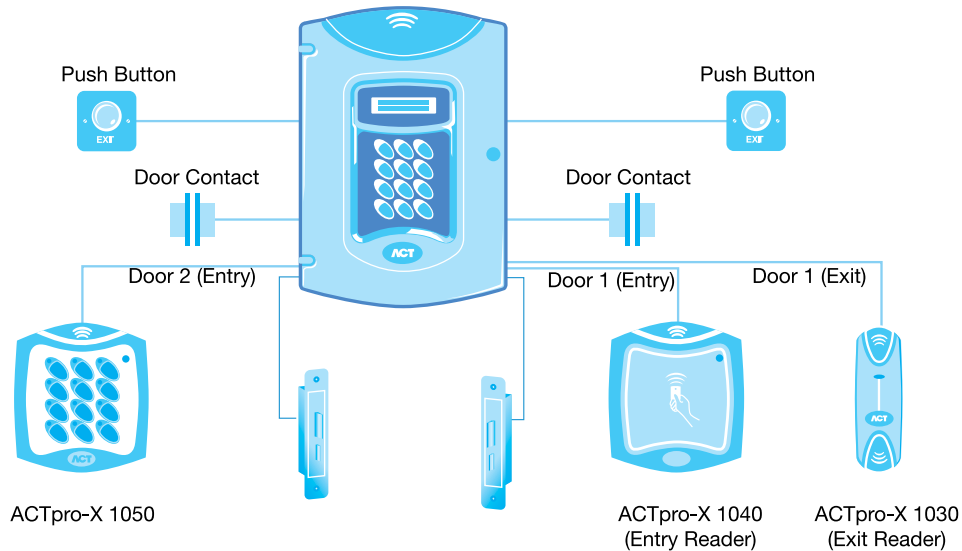


# Product Specification (contd.)

Door Stations	ACTpro 100	ACTpro 101	ACTpro 102	ACTpro 200
<b>Operating Voltage</b>	12 Volts DC	12 Volts DC	12 Volts DC	230 V AC +10% -15%
<b>Frequency</b>				47 - 63 Hz
<b>Current Consumption</b>	40 / 120 mA	40 / 120 mA	40 / 120 mA	100 mA
<b>Output Pin Current Sink</b>	100 mA	100 mA	100 mA	100 mA
<b>Operating Temperature</b>	-10 to + 50°C	-10 to + 50°C	-10 to + 50°C	-10 to + 50°C
<b>Controller Weight</b>	414 gms	80 gms	124 gms	4873.5 gms
<b>Controller Size</b> (HxWxD, mm)	110 x 190 x 60	80 x 130 x 25	80 x 130 x 25	355 x 370 x 85
<b>Mounting</b>	Surface	inside PSU	inside PSU	Surface
<b>Installation</b>	Indoor	Indoor	Indoor	Indoor
<b>Construction</b>	Polycarbonate housing	PCB	PCB	Steel housing
<b>Tamper</b>	Yes	Yes	Yes	Yes
<b>Door</b>	1	1	2	2
<b>Relay Per door</b>	2	2	2	2
<b>Input per door</b>	3	3	3	3
<b>Output per door</b>	2	2	2	2
<b>Readers (Prox &amp; Pin)</b>	Yes	Yes	Yes	Yes
<b>Mains Fuse</b>				630 mA
<b>Lock Fuse</b>				1.25 A Quick Blow
<b>Ripple Voltage</b>				<200 mV
<b>Battery</b>				2 x 7 Ahr
<b>Output Voltage</b>				2 x 12V DC regulated to 1.25 amps
<b>Monitored Alarms</b>				Yes

# Product Schematics

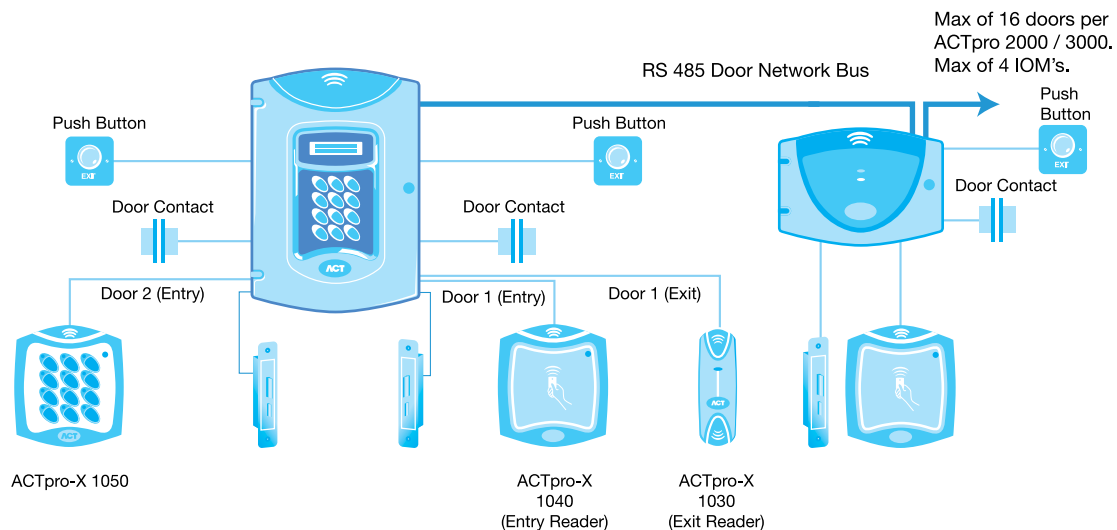
## ACTpro 3000 Door Controller with 2 access points on board



Readers to Controller

Distance: from reader to controller up to 100 metres  
 Cable Type: 8 core screen  
 Power: 12 Volts DC (check manufacturers instructions)

## ACTpro 3000 Door Controller with 2 access points on board, plus additional access point using the ACTpro 100 Door Station

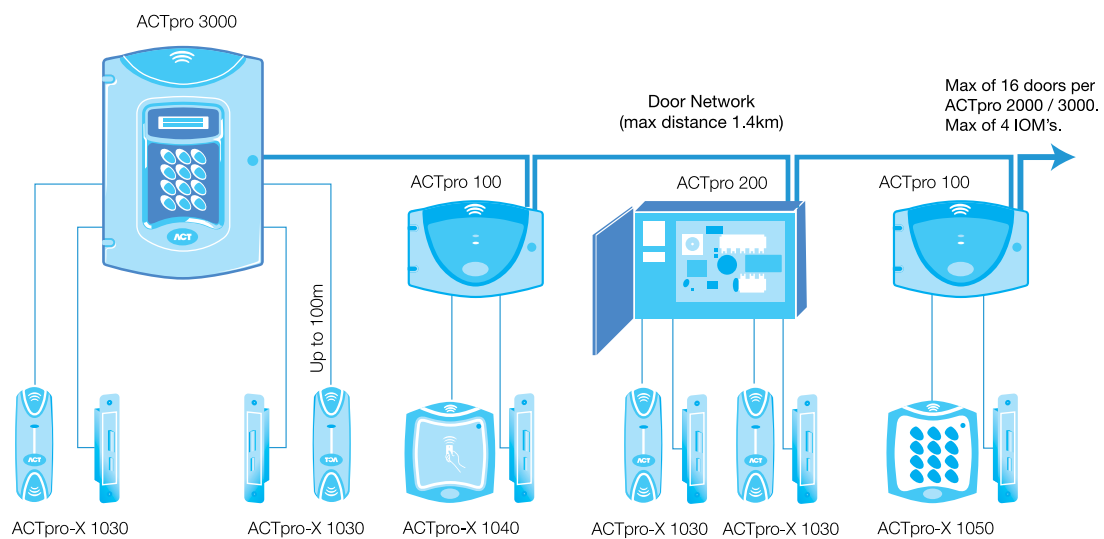


Readers to Controller

Distance: from reader to controller up to 100 metres  
 Cable Type: 8 core screen  
 Power: 12 Volts DC (check manufacturers instructions)

— Door Network

## ACTpro 3000 Door Controller expanded up to 16 doors with ACTpro 100 and 200 Door Stations



Readers to Controller

Distance: from reader to controller up to 100 metres  
Cable Type: 8 core screen  
Power: 12 Volts DC (check manufacturers instructions)

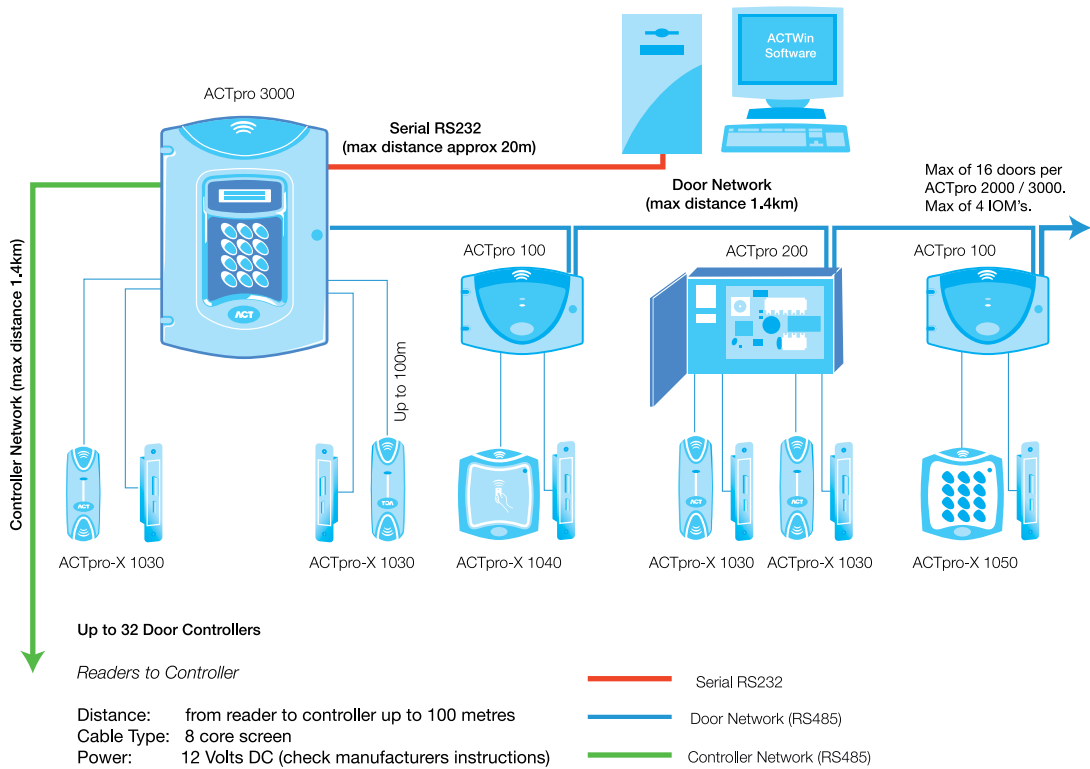
— Door Network

### Cabling Chart

From	To	Network Type	Cable Type*	Comments
ACTpro Controller	ACTpro Door stations (ACTpro 100 / ACTpro 200)	RS485	Screen twisted pair(STP) equivalent to Belden 9501 or shielded Cat5.	Max distance 1.4 km 14 additional doors
ACTpro Controllers / Door Stations	ACTpro-X readers	ACT protocol	8 core Screen	Max distance 100m if powered from 12V source

\* Note: If using UTP (Unshielded Twisted Pair) such as Cat 5 please ensure that the cable is not located near sources of electrical noise.

## ACTpro 3000 Door Controller with up to 16 doors, connected via a serial port (RS232) to a PC running the ACTWin software



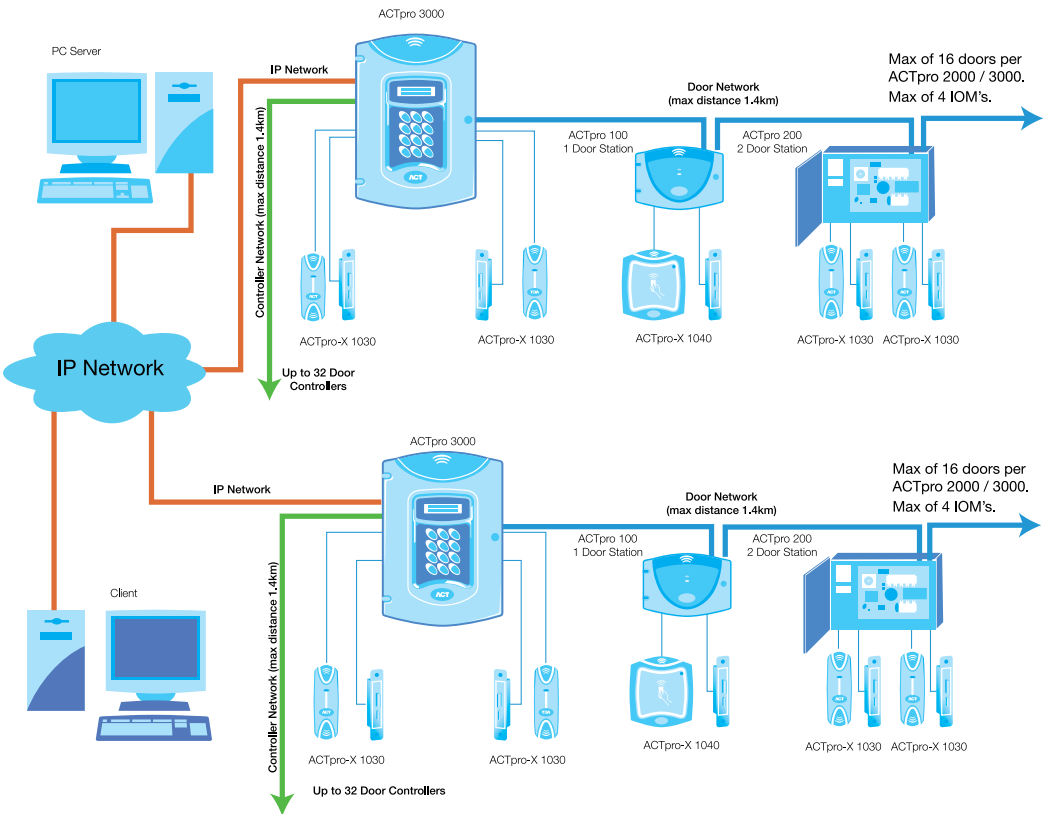
### Cabling Chart

From	To	Network Type	Cable Type**	Comments
ACTpro Controller	ACTpro Door stations (ACTpro 100 / 200)	RS485	Screen twisted pair(STP) equivalent to Belden 9501 or shielded Cat5.	Max distance 1.4 km. 14 additional doors
ACTpro Controllers / Door Stations	ACTpro-X readers	ACT protocol	8 core Screen	Max distance 100m if powered from 12V source
Master ACTpro Controller (Hub mode)	ACTpro Controller	RS485	Screen twisted pair(STP) equivalent to Belden 9501 or shielded Cat5.	Max distance 1.4 km (31 additional controllers)
PC*	ACTpro Controller	TCP/IP	Cat5	Max distance of 100m. If using an ACTpro 2000 an ACT LAN is required
PC*	ACTpro Controller	RS232	Screen twisted pair (STP)	Max distance of 20m. If Hub mode is required with the ACTpro 2000 then connect via the network . Needs Single Channel Interface (ACT Net IF-1)
PC*	ACTpro Controller	RS232 to RS485	Screen twisted pair(STP) equivalent to Belden 9501 or shielded Cat5	Max distance 20m for RS232 and 1.4km for RS485. Needs Single Channel Interface (ACT Net IF-1)

\*The ACTpro 3000 controllers can either be connected to the computer via TCP/IP or Serial

\*\* Note: If using UTP (Unshielded Twisted Pair) such as Cat 5 please ensure that the cable is not located near sources of electrical noise.

# ACTpro 3000 Door Controller, each with a max of 16 doors, connected via Ethernet (TCP / IP) to a PC running the ACTWin software

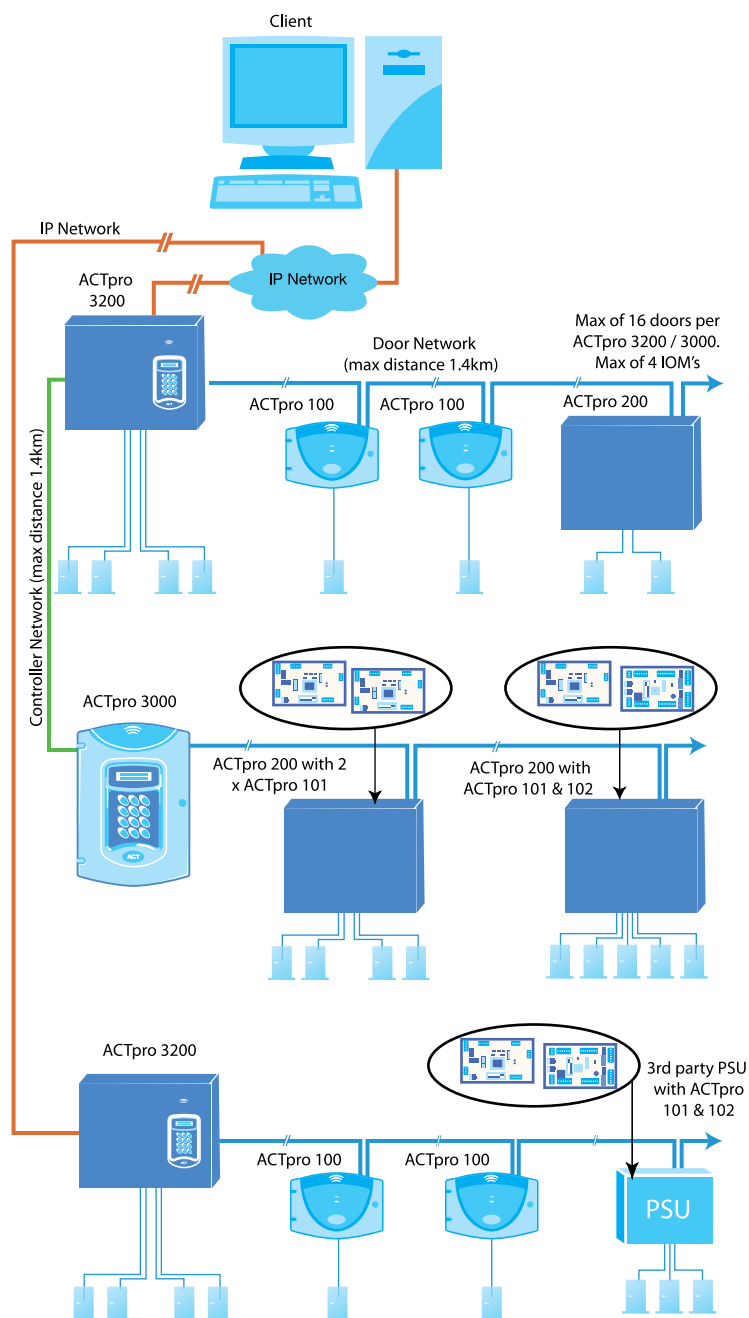


Readers to Controller

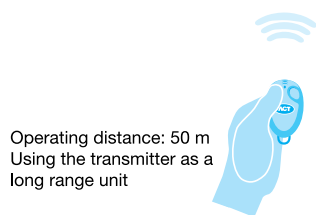
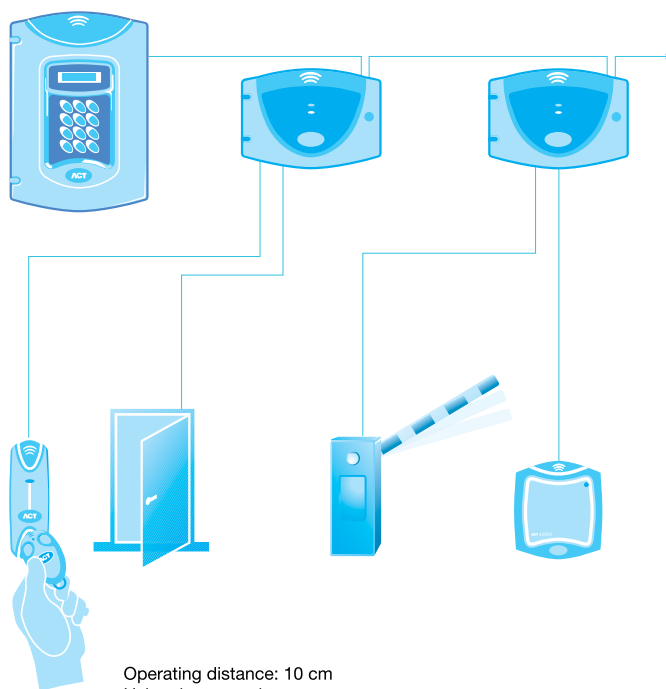
Distance: from reader to controller up to 100 metres  
 Cable Type: 8 core screen  
 Power: 12 Volts DC (check manufacturers instructions)

IP Network  
 Door Network (RS485)  
 Controller Network (RS485)

## ACTpro 3200 four door controller and ACTpro 3000 two door controller with up to 16 doors on each controller



## ACT 433 Long Range Receiver & Transmitters with pro range of Door Controllers, Door Stations and Readers



# Installation Notes

## Readers

### ACTpro-X Readers

- May be installed in exposed outdoor conditions (IP67)
- May be up to 100m when powered from +12V DC
- May be a maximum of 30m from the controller when powered from +5V DC
- Use 8 core screened cable

Note: The +5 Volt reader supply on ACT controllers is normally rated at 100mA. Typically this is sufficient to power 2 ACTpro Readers.

## Controllers

### ACTpro 3200

- The controller may not be installed outdoors unless it is in a sealed and heated cabinet
- The ACTpro 3200 is expanded from 4 to 16 access points via single (ACTpro 100 / 101) or two door (ACTpro 102 / 200) door stations / expanders
- The ACTpro 3200 is compatible with ACTWin Pro and ACTWin Lite software packages.
- The ACTpro 3200 controller will operate standalone or can be connected to a PC via the onboard
  - RJ45 TCP/IP port
  - Serial port (RS232)
  - RS485. (ACT supply an ACT IF-1 which converts RS485 to RS232)
- The ACTpro 3200 Controller may be networked via an RS485 interface to expand the system up to a maximum of 32 controllers (512 doors).

### ACTpro 3000

- The ACTpro 3000 requires a 12 Volt DC supply
- The controller may not be installed outdoors unless it is in a sealed and heated cabinet
- The ACTpro 3000 is expanded from 2 to 16 access points via single (ACTpro 100/101) or two (ACTpro 102/200) door stations/expanders
- The ACTpro 3000 is compatible with ACTWin Pro and ACTWin Lite software packages.
- The ACTpro 3000 controller will operate standalone or can be connected to a PC via the onboard
  - RJ45 TCP/IP port
  - Serial port (RS232)
  - RS485. (ACT supply an ACT IF-1 which converts RS485 to RS232)
- The ACTpro 3000 Controller may be networked via an RS485 interface to expand the system up to a maximum of 32 controllers (512 doors).



# Installation Notes cont'd

## ACTpro 2000

- The ACTpro 2000 requires a 12 Volt DC supply
- The controller may not be installed outdoors unless it is in a sealed and heated cabinet
- The ACTpro 2000 is expanded from 2 to 16 access points via single (ACTpro 100/101) or two (ACTpro 102/200) door stations/expanders
- The ACTpro 2000 is compatible with ACTWin Pro and ACTWin Lite software packages.
- The ACTpro 2000 controller will operate standalone or can be connected to a PC via the onboard
  - Serial port (RS232)
  - RS485. (ACT supply an ACT IF1 which converts RS485 to RS232)
- The ACTpro 2000 Controller may be networked via an RS485 interface to expand the system up to a maximum of 32 controllers (512 doors).

## Door Stations

### ACTpro 200

- For indoor use only
- The ACTpro 200 connects to the ACT controller on the DOORS network
- The ACTpro 200 is compatible with all versions of ACTpro 2000 and ACTpro 3000 Controllers
- Up to 7 ACTpro 200s can be connected to a controller (total of 14 additional access points)
- ACTpro 200 and ACTpro 100 may be connected on the same network

### ACTpro 100

- For indoor use only
- The ACTpro 100 connects to the ACT controller on the DOORS network
- The ACTpro 100 is compatible with all versions of ACTpro 2000 and ACTpro 3000 Controllers
- Up to 14 ACTpro 100s can be connected to a controller (total of 14 additional access points)
- ACTpro 100 and ACTpro 200 may be connected on the same network

# Installation Notes cont'd

## Modules

### ACTpro IOM

- For indoor use only
- The ACTpro IOM connects to the ACTpro 2000 and 3000 controller on the doors network
- The ACTpro IOM connects to the ACTpro 2000 and 3000 controller on the doors network
- Up to 4 ACTpro IOMs can be connected to the ACTpro 2000 / 3000 controller (including the 14 access points)
- Each ACTpro IOMs has 8 inputs and 8 outputs controller can support a maximum of 32 inputs and 32 outputs per 2000 / 3000 door controller.

### ACTpro Wireless Bridge

- Distance of 150 Meters line of sight
- Units are paired and must be kept as pairs
- Requires firmware versions 1.29 on the ACTpro 3000 and 4.26 on the ACTpro 2000.

# Product Comparisons

Please use these product feature comparison charts to help you choose the device which most suits your needs.

## Door Controllers

	ACTpro 1000	ACTpro 2000	ACTpro 3000	ACTpro 3200
Doors	1	2*	2*	4*
Users	10,000	20,000	30,000	30,000
User Groups	16	1,024	1,024	1,024
Event Log	500	5,000	5,000	5,000
Anti passback		✓***	✓	✓
Entry & Exit Reader Support	✓	✓	✓	✓
Timed Actions	✓	✓	✓	✓
Interlock	✓	✓	✓	✓
User Tracking		✓	✓	✓
Visitor Cards	✓	✓	✓	✓
Card only	✓	✓	✓	✓
Pin & Card	✓	✓	✓	✓
Pin or Card		✓	✓	✓
Pin Only	✓	✓**	✓**	✓**
Door Monitoring	✓	✓	✓	✓
Door Control	✓	✓	✓	✓
Fire Alarm Override	✓	✓	✓	✓
Toggle Mode	✓	✓	✓	✓
Door Relay Output	5 amp	5 amp	5 amp	5 amp
Auxiliary Relay Output		1 amp	1 amp	1 amp
Programmable Inputs	2	2	2	2
Programmable Outputs	2 (100mA)	2 (100mA)	2 (100mA)	2 (100mA)
Tamper Output	✓	✓	✓	✓
Network Doors	128 max	1,000 max	2,000 max	2,000 max
Modem Connection	✓	✓	✓	✓
TCP/IP Option		✓	✓	✓
Ethernet Network Interface			10Base-T (RJ45)	10Base-T (RJ45)
Weight	651g	687g	694g	5.88kg
Dimensions (H x W x D, mm)	138 x 87 x 37	270 x 190 x 60	270 x 190 x 60	355 x 370 x 85

\* The ACTpro 2000/3000/3200 Controllers may be expanded to 16 doors via ACTpro 100/101/102/200 Door Expanders

\*\* The ACTpro 2000/3000/3200 Controllers require a pin or pin & prox reader for Pin Only Operation

\*\*\* Global anti passback (anti passback across multiple controllers) is supported on the ACTpro 3000/3200 connected via TCP / IP

For more information see [www.accesscontrol.ie/pro](http://www.accesscontrol.ie/pro)

# Product Comparisons cont'd

## ACTpro-X Reader

	ACTpro-X 1030	ACTpro-X 1030PM	ACTpro-X 1040	ACTpro-X 1050	ACTpro-X 1060
Description	slimline multi-format prox	multi-format prox	multi-format prox	multi-format pin & prox	pin only
Mounting	mullion	panel	surface / flush		
Pin Only					✓
Pin and Card				✓	
Pin or Card				✓	
Card Only	✓	✓	✓	✓	
Keypad Backlighting			✓	✓	✓
IP rating	IP67	IP67	IP67	IP67	IP67
ACT Cards and Fobs	✓	✓	✓	✓	n/a
HID Cards and Fobs	✓	✓	✓	✓	n/a
Selectable Clock & Data or 37-bit Wiegand Output	✓	✓	✓	✓	✓
Construction	Robust polycarbonate housing				
Potted electronics	✓	✓	✓	✓	✓
Tri-colour LED	✓	✓	✓	✓	✓
Built-in buzzer	✓	✓	✓	✓	✓
Mounts on to standard single gang electrical back box		✓	✓	✓	✓
Operating Voltage	5 to 12 Volts DC				
Current Consumption	40mA				
Operating Temperature	-10 to +50 Celsius				
Weight	140g	61g	154g	169g	161g
Dimensions (H x W x D, mm)	108 x 36 x 13	63 x 58 x 23	110 x 100 x 35	110 x 100 x 35	110 x 100 x 35

# Product Comparisons cont'd

## ACTpro mifare Reader

	ACTpro mifare 1040	ACTpro mifare 1050
Description	Contactless smartcard reader	Contactless smartcard & pin reader
Mounting	surface / flush	
Pin Only		✓
Pin & Card		✓
Pin or Card		✓
Card Only	✓	
Keypad Backlighting		✓
IP rating	IP67	IP67
Selectable Clock & Data or 37-bit Wiegand Output	✓	✓
Mifare cards	✓	✓
Selectable Sector, Serial & Reverse Serial reader	✓	✓
Construction	Robust polycarbonate housing	
Potted electronics	✓	✓
Tri-colour LED	✓	✓
Built-in buzzer	✓	✓
Mounts on standard single gang electrical back box	✓	✓
Operating Voltage	12 Volts DC	
Current Consumption	70 mA	
Operating Temperature	-10 to +50 Celsius	
Weight	142g	155g
Dimensions (H x W x D, mm)	110 x 100 x 35	110 x 100 x 35

# Audio Video over IP Door Entry

## ACTentry V-IP Kit

Audio Video over IP Door Entry

### Features

Each kit comprises of:

- ACTentry V-IP door entry panel
- ACTentry V-IP control unit
- ACTentry V-IP handset
- ACTentry V-IP software & manual
- ACTentry 1A PSU

Kits do not include locks

Optional components

ACTpro-X 1030PM proximity reader

### Product Code

Surface Mount: ACTentry V-IPVR-SK

Flush Mount: ACTentry V-IPVR-FK



## ACTentry V-IP Door Entry Panel

### Features

- audio video door entry over LAN using TCP / IP (not supported on WAN or Wi-Fi)
- grant / deny building access from PC
- connect to 8 PC's
- software can manage up to 8 entrance points
- door relay, 5amp
- alarm relay, 1amp
- vandal resistant, stainless steel
- integrated day and night colour video camera
- integrated call button & speech unit
- push button gives audio alert
- supports static & dynamic IP addresses
- Windows XP & Windows 7 compatible



### Product Code

Surface Mount: ACTentry V-IPSP

Flush Mount: ACTentry V-IPFP

For more information see [www.accesscontrol.ie/audiovideo](http://www.accesscontrol.ie/audiovideo)

# ACTentry V-IP Door Entry Panel with Proximity Cut-out

## Features

- All the functionality of the ACTentry V-IP Door Entry Panel
- integrate any ACT panel mount reader for proximity (reader not included)

### Product Code

Surface Mount: ACTentry V-IP SX

Flush Mount: ACTentry V-IP FX



# ACTentry V-IP Control Unit

## Features

- ethernet interface unit (not supported over WAN or Wi-Fi)
- converts video and audio signals from door entry panel to TCP/IP data
- door and alarm inputs and outputs
- echo cancellation control

**Product Code** ACTentry V-IP CTR



# ACTentry V-IP Software

## Features

- manages up to 8 entrance points
- install on up to 8 PCs
- auto video pop-up or discrete mode
- video bandwidth can be set according to network constraints
- grant / deny access
- volume control
- set door open & call answer timers
- call routing
- events logging

**Product Code** included with panel



## ACTentry V-IP PC Handset

### Features

- handset plugged into PC
- indoor use only

**Product Code** ACTentry V-IP PCH



## ACTentry 1Amp Power Supply

### Features

- 1amp, 12 Volt DC power supply unit

**Product Code** ACTentry V-IP PSU





# ACTpro-X 1030PM Reader

can be integrated into the Door Entry Panel

## Features

- panel mount multi-format proximity reader
- indoor/outdoor (IP67)

**Product Code** ACTpro-X 1030PM



**For use with ACT panel mount readers**

for a full list of suitable cards & fobs see page 69/70



# ACTsmart2 1070PM Proximity

## Features

- Panel mount proximity reader / controller
- Indoor / outdoor (IP67)

**Product Code** ACTsmart2 1070PM  
(includes reader / controller, 1 varistor & manual)



# Audio Door Entry with Access Control

## ACTentry A5 Kit

Audio Door Entry & Access Control Kit

### Features

Each kit comprises a

- door entry panel
- intercom
- power supply unit

**Product Code** ACTEntryA5ICOM-K



## ACTentry A5 Entry Panel

Audio door entry and access control

### Features

- 10 user codes
- 2 relays to control 2 entrances
- Connect up to 4 intercoms
- Push to exit input
- Incorrect code lockout
- 5 amp, 30 volt DC relay
- Latch open option / toggle mode
- Switch unit is used for an additional entry panel
- Robust polycarbonate housing
- Programmable keypad backlighting
- Outdoor (IP56)

**Product Code** ACTentry A5-EP



# ACTentry A5 Intercom

## Features

- Hands-free operation
- Volume control buttons
- Door / Gate release button
- Programmable second button for controlling second entrance, lighting, etc.
- Connect up to 4 intercoms
- Latch open option / toggle mode
- Night / silent mode
- Robust polycarbonate housing
- Backlighting

**Product Code** ACTentry A5-ICOM



# ACTentry A5 Power Supply Unit

## Features

15V 800mA DC power supply (this will power 1 entry panel and 3 intercoms).

**Product Code** ACTentry A5-PSU

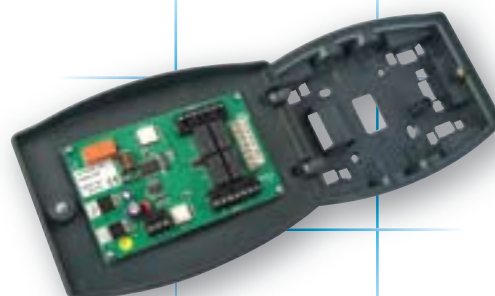


# ACTentry A5 Switch Unit

## Features

Required when more than one entry panel is to be connected to the same intercom or a maximum of 4 intercoms.

**Product Code** ACTentry A5-SW



# ACTentry A10 Kit

## Audio Door Entry & Access Control Kit

### Features

Each kit comprises a

- door entry panel
- handset
- power supply unit

### Product Code

Surface Mount Kit: ACTentryA10-SK

Flush Mount Kit: ACTentryA10-FK



# ACTentry A10 Door Entry Panel

### Features

- audio door entry and access control
- connect up to 4 Door Intercom Handsets
- incorrect code lockout
- 10 user codes
- 2 user groups
- push to exit input
- door monitoring / contact input
- tamper output
- fire alarm override
- interlock
- toggle mode
- 2 x 5 amp, 30 Volt relays
- 2 x 100 mA Darlington Driver outputs
- vandal resistant, stainless steel panel
- incorporates call button, speech unit and ACT 10 digital keypad
- keypad backlighting
- surface / flush mount options
- indoor / outdoor (IP54)



### Product Code

Surface Mount: ACTentryA10-S

Flush Mount: ACTentryA10-F

# ACTentry A10 Door Intercom Handset

## Features

- white high impact ABS plastic
- internal use only
- 'lock release' push-button
- reduced tone volume when off hook
- adjustable volume control

**Product Code** ACTentryA10-HSET



# ACTentry 1 Amp Power Supply

## Features

- 1amp, 12 Volt DC power supply unit

**Product Code** ACTentry 1A PSU



ACT work closely with a manufacturer of Stainless Steel pedestals for clients who require standard or customised solutions.

These pedestals can range from simple mounting solutions of access hardware to fully integrated enclosures.

For more information call ACT on  
+353 (0)1 466 2570 or  
UK Lo-Call 0800 300 5204



# Product Specifications

## ACTentry V-IP Audio / Video over IP

	ACTentry V-IP	ACTentry V-IP X
<b>Number of PC Users</b>	8 (subject to network capabilities)	
<b>Number of doors / access points</b>	8 (door entry panel and control unit required for each door)	
<b>Operating Voltage</b>	10 - 15 Volts DC	
<b>Current Consumption</b>	450 / 500 mA	
<b>Operating Temperature</b>	-10 to +50°C	
<b>Door Open Time</b>	0 – 255 seconds	
<b>Relay Contact Rating</b>	<i>Door Relay:</i> 5A / 30 V DC <i>Alarm Relay:</i> 1A / 24 V DC	
<b>Mounting</b>	surface or flush	
<b>Installation</b>	outdoor	
<b>IP Rating</b>	IP54	
<b>Construction</b>	brushed stainless steel panel	
<b>Door Entry Panel Dimensions</b> (H x W x D, mm)	<i>Flush Mount:</i>	286 x 144 x 11      378 x 144 x 11
	<i>Surface Mount:</i>	266 x 124 x 38      358 x 125 x 38
<b>Door Entry Panel Weight</b>	<i>Flush Mount:</i>	1,600g      2,150g
	<i>Surface Mount:</i>	1,400g      1,890g
<b>ACTentry V-IP controller 100 Mbps (not supported on WAN or Wi-Fi)</b>		

## ACTentry V-IP Software

<b>Network Connection</b>	Ethernet or FastEthernet LAN connection with TCP/ IP protocol (100Mbps)
<b>Memory</b>	1GB RAM, Pentium 4 Processor, 1GB Hard Disk space
<b>Operating systems</b>	Windows XP, Windows 7
<b>Hardware</b>	CD ROM drive (installation only), sound card

## ACTentry A5 Door Entry Panel Audio Door Entry System

<b>Number of Users / Access Points</b>	2 per entry panel
<b>Number of PIN codes</b>	10
<b>Operating Voltage</b>	15 - 24 VoltAC / DC
<b>Current Consumption</b>	300 mA (maximum)
<b>Operating Temperature</b>	-10 to +60 degrees
<b>Door Open Time</b>	2 - 255 seconds
<b>Relay Contact Rating</b>	5 A / 250 VAC
<b>IP Rating</b>	IP56 (outdoor)
<b>Construction</b>	slimline, polycarbonate housing with backlighting
<b>Door Entry Panel Dimensions</b> (H x W x D, mm)	211 x 94 x 30.5
<b>Door Entry Panel Weight</b>	360g

## ACTentry A5 Door Intercom Audio Door Entry System

<b>Number of Intercoms</b>	Up to 4
<b>Operating Voltage</b>	15 - 24 Volt DC
<b>Current Consumption</b>	150 mA (maximum)
<b>Operating Temperature</b>	-10 to +60 degrees
<b>Door Open Time</b>	2 - 255 seconds
<b>Relay Contact Rating</b>	5 A / 250 VAC
<b>IP Rating</b>	IP54 (indoor only)
<b>Constructions</b>	slimline, polycarbonate housing with backlighting
<b>Dimensions</b> (H x W x D, mm)	158 x 94 x 30.5
<b>Weight</b>	230 grams
<b>Othe Features</b>	Toggle, Night Mode, Volume Control

## ACTentry A10 Audio Door Entry System

<b>Number of Users</b>	10 PIN codes
<b>Operating Voltage</b>	12 Volts AC or DC
<b>Current Consumption</b>	30 / 100 mA
<b>Operating Temperature</b>	-10 to +50°C
<b>Door Open Time</b>	0 – 255 seconds
<b>Relay Contact Rating</b>	5A / 30 V DC
<b>Mounting</b>	surface or flush
<b>Installation</b>	indoor or outdoor
<b>IP Rating</b>	IP54
<b>Construction</b>	brushed stainless steel panel
<b>Door Entry Panel Dimensions</b> (H x W x D, mm)	<i>Flush Mount:</i> 378 x 144 x 11 <i>Surface Mount:</i> 358 x 125 x 38
<b>Door Entry Panel Weight</b>	<i>Flush Mount:</i> 2,150g <i>Surface Mount:</i> 1,890g

# Act Entry

The diagram illustrates the ACTentry V-IP system architecture. A central blue device is connected to several components:

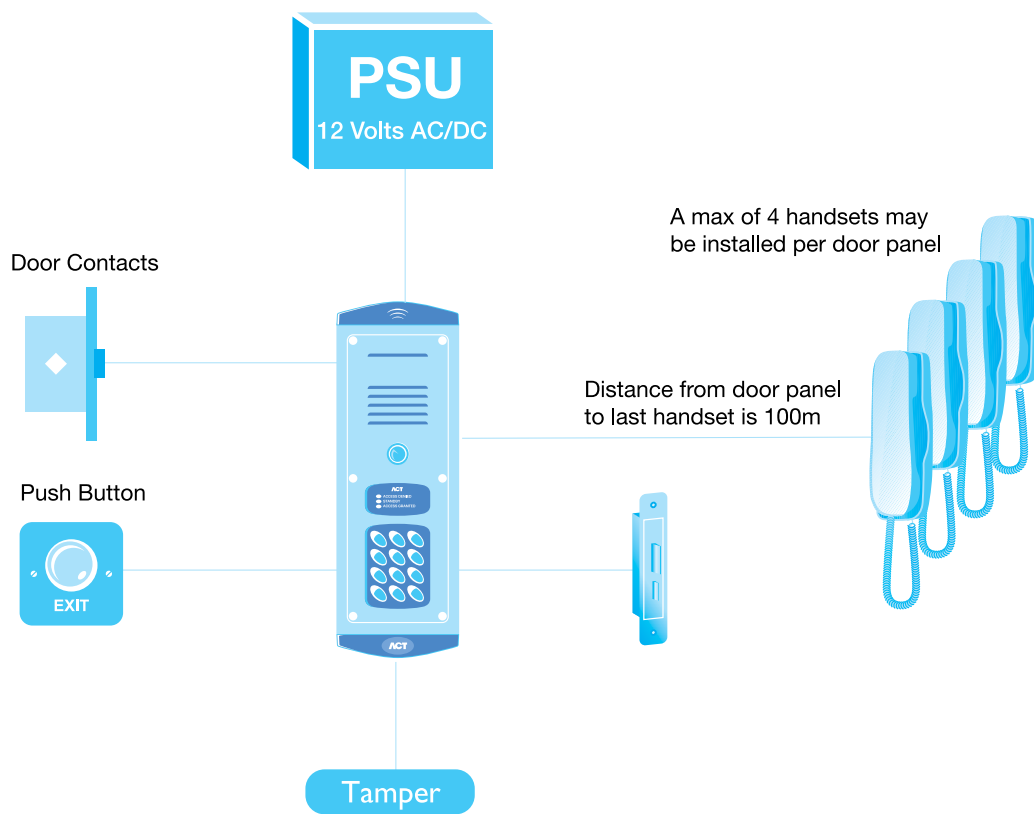
- PSU (Power Supply Unit):** Labeled "PSU 12 Volts DC", it provides power to the central device.
- Tamper:** A blue oval labeled "Tamper" is connected to the central device.
- CAT 5 Cable:** A blue oval labeled "CAT 5 Cable" is connected to the central device.
- LAN:** A blue oval labeled "LAN" is connected to the central device via a "TCP / IP" connection.
- Multiple PC's running ACTentry V-IP Software with PC Handsets connected:** A group of three desktop computers with handsets is connected to the LAN.
- EXIT:** A blue square labeled "EXIT" is connected to the central device.
- Other Peripherals:** A blue rectangular device and a blue cylindrical device are also connected to the central device.

The diagram illustrates the components and connections of the ACT Intercom System. At the top left, a blue box labeled "PSU" (Power supply unit) is shown, with a note stating "Power supply unit is included in the kit." Below the PSU is the "Entry Panel", which features a circular speaker, a 12-button numeric keypad, and a small circular indicator light. Below the Entry Panel is a small blue square button labeled "EXT" (External). To the right of the Entry Panel is the "Intercom", which also features a circular speaker, a small circular indicator light, and a control panel with two buttons labeled "1" and "2", and a toggle switch. A "CAT 5 Cable" connects the Entry Panel to the Intercom. A note below the cable states "Max distance of 200m from entry panel to intercom". At the bottom right, a note states "Up to 4 intercoms per entry panel".

## When Performance Counts



## ACTentry A10 audio door entry with up to 4 handsets



# Installation Notes

## ACTentry V-IP Audio Video over TCP / IP Door Entry

### ACTentry V-IP Door Entry Panel

- Mount on a wall near the entrance point and in a sheltered location
- Sink or mount onto the mounting surface at a height which puts the camera lens at eye level

### ACTentry V-IP Control Unit

- Mount in secure place with an Ethernet network connection point in close proximity, no greater than 100 metres from the door entry panel.
- A 12 Volt DC , 1 Amp power supply is to be used to power the unit and the door entry panel audio and video module's.
- The door entry panel and the unit are to be wired together using one CAT 5 twisted pair Cable. Audio and mic must be on one pair and video and OV on another pair.
- The V-IP can be configured with a static or dynamic IP address
- Supported on LAN only (not supported on WAN or Wi-Fi)

### ACTentry V-IP Software

- PC should be connected to a TCP/IP network.
- Install on any PC where the user is expected to answer calls and allow access to the building
- Use the CD provided to install the software.

### ACT PC Handset

- Mount the PC Handset in a location that is easily accessible and unobstructive for the user.

## ACTentry A10 Audio Door Entry

### ACTentry A10 Door Entry Panel

- The unit should be mounted on a wall near the entrance point, and in a sheltered location
- Remember to place the supplied varistor across the terminals of the door strike coil to protect the relay contacts
- Never use the on-board relay to switch AC mains voltage. An external relay, electrically isolated from the ACTentry A10 should be used for this purpose.
- Remember to change the programming code

### ACTentry A10 Door Intercom Handset

- The ACTentry Door Intercom Handset (handset) operates from 12 Volt AC or DC
- The handset is designed to be wall mounted in a convenient indoor location
- For optimum speech clarity, it is strongly recommended that this system should be installed using twisted-pair telephone cable.
- Up to a maximum of 4 handsets may be installed per Door Entry Panel
- The maximum distance between the Door Entry Panel and the last handset is 100 metres.

## ACTentry A5 Audio Door Entry

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- 200m range between entry panel and intercom with CAT5 or Belden cable
- Switch unit available for second entry panel
- Max of 4 intercoms
- Supports up to 4 entry intercoms and 2 entry panels

# Cards and Fobs

There are currently a number of different technologies involved in access control cards and fobs. This document aims to inform the reader of what cards or fobs are appropriate for different reading technologies.

## What is a card / fob?

Each card or fob is programmed with a unique identifier which may be either a batch number or a site coded number. A number of different technologies can use these cards / fobs.

## RFID

Radio Frequency Identification Devices (RFID) cards / fobs are the most common devices used in today's access control systems. They are, in the main, passive devices (no batteries). When presented to a card reader the card is powered and transmits its unique identifier.

## Proximity RFID

Proximity is the most commonly used card / fob technology today. Operating at 125 kHz the card / fob, when powered by the reader, transmits its unique identifier to the access control system. The system in turn will make a decision on access based on the access rights of the card holder.

## Contactless Smart Card RFID

Contactless smart cards operate on a much higher frequency (13.56MHz). These cards / fobs have a memory capacity that is divided into sectors that are programmed for specific applications e.g. access control, cashless vending, car parking, road tolling, etc.

## What is a batch coded card / fob?

A batch coded card / fob is pre-programmed with a number that is unique and sequential.

## What is a site coded card/fob?

A site coded card / fob is pre-programmed with a number that is unique and sequential. In addition the card contains a unique site code.

## Important Information for your cards / fobs

---

- When re-ordering cards / fobs you will need to be able to answer the following questions:
- Is it a card or a fob?
- What technology does the card / fob use?
- What is the brand of the card / fob?
- Is the card / fob site or batch coded?

## Cards &amp; Fobs

	ACTProx Fob	ACTProx ISO	ACTProx HS	ACTProx Duo	HIDProx Fob	HIDProx ISO	HIDProx HS	HIDProx Duo	Micro Prox	ACT Card	ACTpro mifare Fob	ACTpro mifare Card	HID iClass Cards	HID mifare 1431	ACT 433TX	ACT 433TX prox
Token Reader	Fob	Card	Card	Card	Fob	Card	Card	Card	Tag	Card	Fob	Card	Card	Card	Fob	Fob
<b>Standalone</b>																
ACT5prox	X	X	X	X											X	
<b>ACTsmart2</b>																
1070	X	X	X	X											X	
1070PM	X	X	X	X											X	
1080	X	X	X	X											X	
<b>ACTpro-X</b>																
1030	X	X	X	X	X	X	X	X	X					X	X	
1030PM	X	X	X	X	X	X	X	X	X					X	X	
1040	X	X	X	X	X	X	X	X	X					X	X	
1050	X	X	X	X	X	X	X	X	X					X	X	
<b>ACTpro</b>																
1010				X				X		X*				X		
<b>ACTpro mifare</b>																
1040											X	X	X	X		
1050											X	X	X	X		
<b>HID</b>																
iClass R10													X			
iClass R40													X			
iClass RP40													X			
<b>Long Range</b>													X			
ACT 433RX															X	X

\*not encoded

# Proximity Cards & Fobs (125 kHz)

## ACTProx Fob

### Features

- ACT proximity key fob
- max range of up to 8cm
- extremely robust
- supplied in pack of 10

**Product Code** ACTProx Fob-B



All ACT and HID cards & fobs are batch coded by default. ACT recommends using batch cards for simpler system enrollment.

## ACTProx ISO Card

### Features

- ACT ISO proximity card
- suitable for printing
- max range of up to 8cm
- supplied in pack of 10

**Product Code** ACTProx ISO-B



HID cards and fobs can be encoded with a unique site code. When ordering subsequent cards & fobs this site code is required. Site codes cards & fobs have a 2 week lead time.

## ACTProx HS Card

### Features

- ACT Half Shell proximity card
- not suitable for printing
- max range of up to 8cm
- supplied in pack of 10

**Product Code** ACTProx HS-B



## ACTProx Duo Card

### Features

- ACT Duo Prox Card (prox & mag stripe)
- suitable for printing
- max range of up to 8cm
- supplied in pack of 10

**Product Code** ACTProx Duo-B



# Proximity Cards & Fobs (125 kHz)

## HIDProx Fob



### Features

- HID RFID proximity key box
- max range of up to 6 cm
- supplied in pack of 10 (batch)

**Product Code** HIDProx Fob-B (batch)

## HIDProx ISO Card



### Features

- HID RFID ISO proximity card
- max range of up to 8 cm
- suitable for printing
- supplied in pack of 10 (batch)

**Product Code** HIDProx ISO-B (batch)

## HIDProx HS Card



### Features

- HID RFID Card 11 (Half Shell proximity card),
- max range of up to 8 cm
- not suitable for printing
- supplied in pack of 10 (batch)

**Product Code** HIDProx HS-B (batch)

## HIDProx Duo Card



### Features

- HID RFID proximity & mag stripe card
- max range of up to 8 cm
- suitable for printing
- supplied in pack of 10 (batch)

**Product Code** HIDProx Duo-B (batch)

## Micro Prox Tag



### Features

- HID RFID adhesive proximity tag
- max range of up to 8 cm
- not suitable for printing
- supplied in pack of 10 (batch)

**Product Code** HID Micro Prox



# Contactless Smart Card Cards & Fobs (13.56 MHz)

## ACTpro mifare Fob

### Features

- for use with ACTpro mifare 1040 / 1050
- proximity mifare 1KB fob
- max range of 3cm
- not suitable for printing
- supplied in packs of 10

**Product Code** ACTpro mifare 1KB Fob



## ACTpro mifare Card

### Features

- for use with ACTpro mifare 1040 / 1050
- prox mifare 1KB card (prox & mag stripe)
- max range of 5cm
- suitable for printing
- supplied in packs of 10

**Product Code** ACTpro mifare 1KB Card



## HID iClass cards

### Features

- for use with HID iClass Readers
- suitable for printing
- max range of 5cm

**Product Code** HID i class 2k card  
HID i class 16k card



## HID mifare 1431

### Features

- for use with HID iClass Readers
- prox mifare 1KB card (prox & mag stripe)
- suitable for printing
- max range of 5cm

**Product Code** HID mifare 1431





## Magnetic Swipe Card

### ACT Card

#### Features

- swipe card (magnetic strip)
- suitable for printing
- ACT logo as standard (blank on request)
- supplied in packs of 10

#### Product Code

ACT Card-B (Batch)



## Radio Transmitters

### ACT 433TX

#### Features

- high security rolling code transmission
- range of up to 50m (site dependant)
- 2 button battery powered radio devices
- battery used: two CR2032

**Product Code** ACT 433TX



### ACT 433TXprox

#### Features

- all the functions of the ACT 433TX
- built in ACT proximity fob for use with ACTsmart2 & ACTpro-X readers

**Product Code** ACT 433TXprox



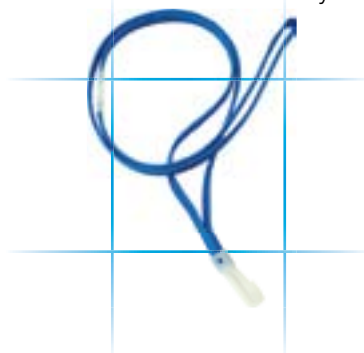
## Cards & Fobs Accessories

### Lanyard

#### Features

- use with ACT cardholder to secure card around the neck
- quick safety release clip

**Product Code** ACT Lanyard

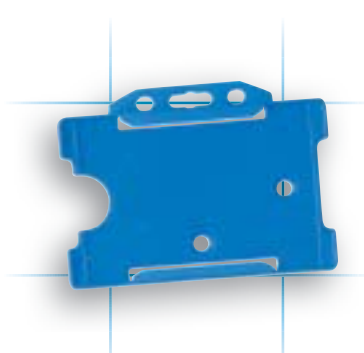


### Cardholder

#### Features

- plastic holder for cards
- attach to lanyard or clip

**Product Code** ACT Cardholder



### Clips

#### Features

- use with the ACT cardholder to secure card to clothing

**Product Code** ACT Clip



### Yo Yo

#### Features

- Elasticated holder for cards and fobs

**Product Code** ACT YO-YO



## Card Printing Bureau Services

### Card ID

#### Features

- personalised printing  
e.g. employee name,  
photo, department, etc

**Product Code** ACT ID

### Card Logo

#### Features

- non-personalised printing  
e.g. company logo,  
address, phone, etc.

**Product Code** ACT Logo

### Encoding

#### Features

- to add non standard  
encoding to a card

**Product Code** Encoding





**ACT**  
Access Control Technology

**ACT**  
Access Control Technology

# Customer Services

Adding value to ACT products the ACT Customer Services department provides a variety of support structures for all clients

# Customer Services

## Introduction

All equipment designed and manufactured by ACT is renowned for its reliability and ease of installation and usability. ACT customer services offer a wide range of additional products and services to assist the installer in delivering a completed installation to their client and in assisting the installer with any subsequent site developments.

The customers services offering includes reviewing specification documents, designing and building client specific solutions, on-site commissioning, installer and end user training and development work to integrate ACT equipment with 3rd party systems.

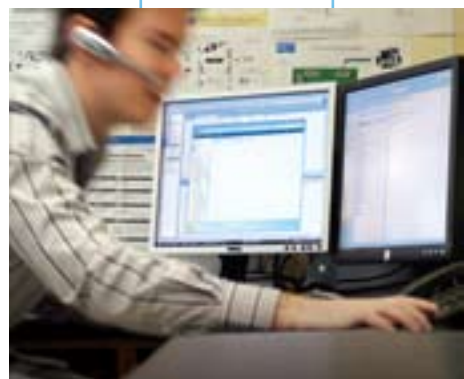
## Training

ACT has developed certified training programmes for installers on all of our product ranges. Our training courses are tailored to provide the fundamental skills required to design, install, commission and operate access control systems. We can work to develop bespoke training modules tailored for your organization. Each module is instructor led, hands on and teaches the installer how to configure ACT products and systems. ACT Customer services can also provide end user training tailored to meet the specific requirements of the customer including how best for them to manage the access control system.



## Technical Support

Access Control Technology has a team of qualified and experienced engineers to assist with any problems relating to access control. If problems are not resolved then they are automatically escalated to the 2nd level support team at which stage the hardware and software engineers may be involved to assist in resolving the particular issue.



## Onsite Commissioning/Support

The ACT customer services team will, on request, provide clients with on-site support and guidance with the access control install and maintenance. This is particularly beneficial to the installer when detailed knowledge of access control technologies is necessary or where the experience of large database technology, IP networking, computer security or integration is not readily available.



## Product Development & 3rd Party System Integration

ACT can provide a totally managed service including project management, development, testing, installation and training by our experienced staff. The customer service department has been involved in developing and project managing the development of bespoke solutions and the integration of ACT equipment with 3rd party systems; most notable Microsoft's LDAP – active directory and large human resources databases.



## Consultation Services

ACT Customer service and sales departments are always on hand to assist with tender specifications and system design and in developing a solution for the customer.







# Appendix



# Glossary of Terms for Access Control

## **Access**

Action of entry into or exit from a security controlled area.

## **Access Authorisation**

Permission granted to a token enabling the holder to enter a location based on a programmed time schedule.

## **Access Control Report**

Reports indicating the movement (entry or exit) at each access location on the system and the users who have passed through.

## **Access Control System**

A system which comprises all the constructional and organisational measures as well as those pertaining to the apparatus which are required for controlling access

## **Access Control Unit**

Device which makes the decision to release one or several access points and manages the associated control sequence

## **User Group**

A number of users sharing the same doors at the same time

## **Access Point**

The location at which access can be controlled by a door, turnstile or other secure barrier

## **Access Point interface**

Device which controls releasing and securing of an access point

## **Access Point Reader**

Device used to extract recognition data from a token or biometric. The device can have an associated keypad when used with memorised information.

## **ACTWin**

A computer application for use with the ACTpro family of door access control units

## **ACTWin pro**

Client/Server version of ACTWin for use by simultaneous users.

## **ACTWin lite**

Single user version of ACTWin.

## **ACTpro**

Is a family of access controllers, door expanders and readers which can be networked and connected to the ACTWin application to ease configuration. The pro controllers support 2 doors directly and expandable to 16 doors using door expanders. The configuration can also take place at the controller which is useful if the customer does not have a computer or the computer has failed.

## **ACT Standalone Keypad**

A single door control unit with no links to other controllers or PC applications.

## **ACT Smart Keypad**

Is a family of intelligent standalone door controllers with pro functionality, which can be networked together and configured from a master keypad or a PC using the ACTSmart software.

## **Alert**

Request for human intervention after the activation of an indicator

## **Annunciation**

Presentation of the information to management or other system

## **Apas**

Access point actuators and sensors. Examples of actuators are electrical door openers, electric locks, turnstiles and barriers. Examples of sensors are contacts, switches, pressure signalling devices and door switches

## **Apas closed**

An apas is closed when the access point does not afford free passage

**Apas open(ed)**

An apas is open(ed) when the access point affords free passage

**Apas violation**

Unauthorised operation of an access point

**Area controlled anti-pass back**

Operating mode which requires the user to be present in a designated security controlled area in order to be able to enter another security controlled area.

**Anti-Passback**

Operating mode which requires user validation when leaving a security controlled area In order to be able to re-enter and vice versa

**Audit trail**

A report of any changes made to a system.

**Biometrics**

Information which is referring to unique physiological attributes of the user

**Break Glass**

Usually a mechanical switch which breaks power going to the lock.

**Clock and Data**

A specific data communication protocol which is an industry standard for the serial transmission of information.

**Controlled Area**

An area where the entrances and exits are controlled by an access control system.

**Degraded Mode**

Mode where access is granted without performing all the full processing

**Duress Alarm**

Information providing the same results as a memorised information and which initiates an alert

**Door Command Facility**

Facility that allows an authorised computer operator to open / close a door on the system from their terminal

**Door Open Time**

The time allowed for an access point to remain open after a valid authentication.

**Door Strike**

An electro-mechanical device used to lock and unlock a door under electrical control.

**Egress Button**

Also referred to as push button (PB), exit button (EB) or request to exit button (RTE). which indicates to the access control point that the user wishes to exit.

**Event**

A change occurring within the access control system

**Event log**

A record of a series of events.

**Exit**

A way out of an area which may or may not be controlled.

**Factory Default**

A term commonly used to define resetting a device back to the settings it had when leaving the factory.

**Fail Safe**

Mode where apas affords free passage (apas open(ed)) when the power is removed.

**Fail secure**

Mode where apas does not afford free passage (apas closed) when the power is removed

**False acceptance**

The granting of access to an authorised user

**False rejection**

The denial of access to an authorised user

## Glossary of Terms for Access Control cont'd

### **Fault condition**

Any condition which leads to the interruption or degradation of the access control system's functionality.

### **Guard Tour**

A defined route of a security guard.

### **Ingress**

To enter (opposite of egress)

### **Logic Anti-Passback**

See anti-passback

### **Memorised information:**

Information known to the user

### **Monitored**

Senses the state of the door, if it is open or closed

### **Mullion reader**

A reader designed to be mounted on the door frame.

### **Noise**

Unwanted signals present on data lines.

### **Normal condition**

The access control system is fully functional and able to process all events according to the pre-set rules.

### **Off-line**

A term used to define communication which cannot be established between two network devices.

### **On-line**

A term used to establish that communication has been established between two network devices.

### **Password**

A special sequence of characters (letters, numbers, symbols) that are used to gain access to a computers operating system or an application.

### **Photo ID**

An electronic photo of the user which is stored in the access control database. This photo can be used for visual verification or printing onto the user access card.

### **PIN**

Personal Identification Number.

### **Power Supply**

That part of the access control system which provides power for the operation of the system or any part thereof

### **Processing**

The comparing of information with pre-set rules to make decisions concerning the granting or denying of access to users and/or the comparing of event with pre-set rules to produce appropriate actions

### **Programmability**

Ability to receive and store pre-set rules

### **Protocol Convertor**

Data transmission convertor i.e RS232 to RS485 or vice versa.

### **Proximity**

Radio frequency technology used in access control, where a token is presented to a reader. The read ranges can be from a few mm up to 50m as with the ACT433 Tx.

### **PSU**

Power Supply Unit see Power supply

### **Pulse**

A positive or negative change in voltage on a circuit

### **Reader**

See access point reader

### **Release**

The signal to the apas that access has been granted

**Real time download**

Information which can be downloaded in real time from the PC to the controller such as the change in a users access rights.

**Radio-frequency identification device (RFID)**

These are tokens which use radio frequency (RF) to transmit the ID which is stored in the token.

**Roll call reports**

Reports indicating who is present or absent.

**RS232**

A data communication industry standard for the serial transmission of information, the transmission distance can be from 20m up to 30m approx.

**RS485**

A data communication industry standard for transmission of information the transmission distance is a max 1.4km.

**Relay**

A magnetically operated mechanical switch.

**Security Control Unit**

Area surrounded by physical barrier, including one or more access points

**Smartcard**

A smartcard is a card with an integrated microprocessor that can record data which can be used for access control, cashless vending.

**Site code**

Part of the security code stored in the access card which identifies the installation the Access control token (card or fob) belongs to.

**Tailgating**

Where an individual tries to gain access by following behind an authorised user.

**Tamper Protection**

Methods used to protect an access control system or part thereof against deliberate interference

**TCP/IP support**

Data communication protocol most commonly used for computer networks and the internet.

**Timed Anti- Passback**

Timed anti-pass back Operating mode which inhibits the access granting process at an Access point or to a security controlled area for a preset period for a particular user once that user has been granted access

**Time & Attendance reports**

Reports indicating the time a user has spent in the building consisting of arrival time, leaving time and duration which can be run for a defined period such as daily, weekly or monthly.

**Time grid**

One or more time zones allocated to the access level

**Time Slot**

Interval of time between two given moments indicating the beginning and end of a valid period within a time zone

**Time zone**

One or more time slots combined with calendar information

**Toggle**

A signal to the apas to grant access and remain in that state until toggle is deactivated usually by presenting or re-entering the token or memorised information

**Token**

Recognition data provided by access cards, keys, fobs, etc

## Glossary of Terms for Access Control cont'd

**Token holder**

An individual who has been issued and holds an access control token.

**Token Number**

Coded number stored in the access control token (card or fob).

**Transaction**

An event which corresponds to the release of an access point following recognition of a user identity

**Two users access condition**

Procedure which ensures that access is granted provided two users have demonstrated their right of access within a preset period.

**Unmonitored**

Does not sense the open/closed status of the door.

**Upload facility**

Facility whereby the information stored in a controller can be uploaded to the PC.

**Users**

A person requesting passage through an access point

**User Groups**

Grouping of individuals who have common access rights such as office staff , production staff or security staff.

**User identity**

Information which is transferred directly or via a token by the user to the recognition equipment

**User Tracking**

Facility for identifying where a particular token was last used.

**Wiegand**

A specific data communication industry standard for the serial transmission of information can vary from 26-54 bits.



