ACTpro-1500 Door Controller

Installation and Operating Instructions





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ACTpro-1500

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1 Overview

This guide describes the installation of the ACTpro-1500 controller.

The ACTpro-1500 Controller is a single door IP controller that requires an external 12V or 24V power supply.

| Capabilities | | |
|-----------------------|--|--|
| Number of Doors | 1 | |
| Number of Users | 60,000 (4 credentials per user) | |
| User Groups | 2000 | |
| Time Zones | 250 | |
| Door Groups | 1000 | |
| Log Events | 20,000 | |
| Browser Compatibility | Chrome, Firefox Version 8.0 or later, Microsoft Internet Explorer 8 or later | |

1.1 Ordering information

| Controllers | Product Code | Description |
|----------------|------------------|---|
| ACTpro-1500 | V54502-C111-A100 | Single door IP controller expandable to 32 doors with ACTpro door stations. |
| ACTpro-1520 | V54502-C110-A100 | Controller with integrated 12V 2A DC power supply. |
| ACTpro-1500PoE | V54502-C112-A100 | Single door IP controller with PoE + PSU. |
| ACTpro-100 | V54502-C120-A100 | Door station, single door |
| ACTpro-120 | V54502-C122-A100 | Door station with integrated 12V 2A DC power supply, single door. |
| ACTpro-IOM | V54506-B100-A100 | IO module (8 inputs and 8 outputs) |

1.2 Technical specification

| | ACTpro-1500 |
|--------------------------------------|-------------------|
| Voltage Range (Controller) | 11–24V DC |
| Current Consumption (Controller) | 350mA (Max) |
| Controller Dimensions (H x W x D mm) | 165 x 236 x 55 |
| Controller Weight (kg) | 0.4 |
| Operating Temperature | -10 to +55° C |
| Operating Environment | Surface mounting |
| | Internal use only |

| | ACTpro-1500 |
|--------------------------------------|-------------|
| Enclosure Material | ABS |
| LED Status Indicators | Yes |
| PSU Fault Output | n/a |
| Lid Opening Tamper Detection (Front) | Yes |
| Support OSDP | Yes |
| Support Wiegand (VI, HID, SmarfID) | Yes |
| Support Clock and Data | Yes |

1.2.1 Relay load

When used with inductive loads (Maglock/Strike locks) the following ratings apply.

| | ACTpro-1500 |
|------------|----------------|
| Main relay | 1.5A @ 30VDC / |
| | 1.5A @ 50VAC |
| Aux relay | 400mA @ 30VDC |

2 Installation

The ACTpro-1500 Controllers are for indoor installation only and must be installed as permanently connected equipment.

After installing an ACTpro controller, Vanderbilt recommend that you place the provided ferrite bead (a noise suppression device) around the Ethernet cable near the RJ45 connector to attain a desired level of electromagnetic compatibility (EMC).

2.1 Mounting

Mount the ACTpro Controller directly on to the wall with the supplied screws.

The unit should be installed in a ventilated area that allows for accessibility after installation.

2.2 Power supply

The ACTpro-1500 requires an external 12V DC or 24V DC power supply. The supply should be connected to the +12/24V DC and 0V/GND connections.



3 Wiring

This section describes the following.

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3.1 Typical wiring of the ACTpro-1500 controller



| Label | Description |
|-------|-------------------------------|
| A | Door contact, normally closed |
| В | Push to exit, normally open |
| С | Door networks RS485 |
| D | OSDP EOL |

| Label | Description |
|-------|--|
| E | OSDP/Controller network (Max. 4 OSDP readers |
| F | Ehternet switch RJ45. NOTE: All IP devices must have a valid IP address. |
| G | Vanderbilt reader wire colour coding (Wiegand / Clock&Data interface). |

3.2 Wiring Clock&Data entry and exit readers



For Clock&Data readers, wire exit readers in parallel with entry readers, but leave the sense line unconnected for exit readers.

Max length: 100m with 12V DC

Cable: 8 core screened Belden 9504 (24 AWG) or equivalent.

| Label | Description |
|-------|--|
| А | Entry reader. ACTpro-1050 PIN and Proximity reader (EM1050, MF1050, EV1050). |
| В | Exit Reader. ACTpro-1030 Proximity reader (EM1030, MF1030, EV1030). |

3.2.0.1 Terminal block wiring

| Reader Terminal Block | Recommended Wiring colour | Controller Input PIN | Signal Information |
|-----------------------------|------------------------------|-------------------------|--|
| SENSE | White | SENSE | For Entry readers connect the reader SENSE cable or terminal to the SENSE input pin. For Exit readers, do not use this input. |
| CLOCK/D1 | Green | CLOCK/D1 | This is the clock or strobe signal input on the ACTpro controller or door stations. Connect the reader CLOCK/D1 cable or terminal on the reader to CLOCK/D1 input pin. |
| DATA/D0 | Blue | DATA/D0 | This is the Data input. Connect the reader DATA/D0 cable or terminal on the reader to DATA/D0 input pin. |
| +12V/24V | Red | +12V/24V | Positive +12V DC Supply voltage for the reader. |

| Reader Terminal Block | Recommended Wiring colour | Controller Input PIN | Signal Information |
|-----------------------------|------------------------------|-------------------------|---|
| 0V/GND | Black | 0V | 0V Supply Voltage for the reader. |
| RED | Brown | RED | Red LED control output from the ACTpro controller or door stations. Connect the reader brown cable to the terminal marked RED on the controller. |
| GREEN | Yellow | GREEN | Green LED control output from the ACTpro controller or door stations. Connect the reader green cable or terminal marked GREEN on the ACTpro controller. |

3.3 Wiring Wiegand entry and exit readers



| Label | Description |
|-------|---|
| А | Entry reader. ACTpro-1050 PIN and Proximity reader (EM1050, MF1050, EV1050). |
| В | Exit Reader. ACTpro-1030 Proximity reader (EM1030, MF1030, EV1030). Do not connect the reader to the SENSE pin on the controller. |

For Wiegand Entry Readers: Wire D0 to the DATA/D0 Pin on the ACTpro controller and D1 to the CLOCK/D1 pin on the ACTpro controller.

For Wiegand Exit readers: Wire the D0 of the exit reader to the SENSE pin on the ACTpro controller and D1 to the CLOCK/D1 pin on the ACTpro controller.

Max length: 100m with 12V DC

Cable: 8 core screened Belden 9504 (24 AWG) or equivalent

| Reader Terminal Block | Recommended Wiring colour | Controller Input PIN | Signal Information |
|-----------------------------|------------------------------|-------------------------|---|
| SENSE | White | SENSE | For Entry readers connect the reader SENSE cable or terminal to the SENSE input pin. For Exit readers, do not use this input. |
| CLOCK/D1 | Green | CLOCK/D1 | This is the clock or strobe signal input on the ACTpro 1520/1500. |
| DATA/D0 | Blue | DATA/D0 | This is the Data input. |
| +12V/24V | Red | +12V/24V | Positive +12V DC Supply voltage for the reader. |
| 0V/GND | Black | 0V | 0V Supply Voltage for the reader. |
| RED | Brown | RED | Red LED control output from the ACTpro 1520/1500. Connect the reader brown cable to the terminal marked RED on the controller. |
| GREEN | Yellow | GREEN | Green LED control output from the ACTpro 1520/1500. Connect the reader green cable or terminal marked GREEN on the ACTpro controller. |

3.4 Wiring OSDP readers

When connecting OSDP readers to the ACTpro-1500 family of controllers, ensure that the EOL jumper is on the last two pins (EOL position) on the last reader only.



Jumper position if controller is in the middle of the OSDP-bus.

Jumper position if controller is EOL(End Of Line) for the OSDP-bus.



You cannot network ACTpro-1500 controllers via RS485 when OSDP readers are attached. When connecting controllers via RS485, move the jumper to the first two pins (standard operation).

Some examples of connecting OSDP readers:



Example 1





The EOL Resistor/Jumper must be ON for the devices at the ends of the bus. Example 1: EOL ON in the Controller and the fourth Reader. OFF in all other readers. Example 2: EOL ON in Reader one and four, and EOL OFF in the controller and reader two and three.

3.5 Wiring controller

Each ACTpro controller can be connected directly to the customer network.

3.5.0.1 Connecting single doors over Ethernet

Connect each controller directly on the customer's LAN.

Each controller must be configured with a unique IP address.



3.5.0.2 Connecting over an IP switch



Connect a controller directly on the Customers LAN and network the remaining controller via the onboard Ethernet switch (maximum 4 controllers).

Each controller must be configured with a unique IP address.

3.5.0.3 Connecting controllers over RS485



Connect a controller directly on the customer's LAN and network the remaining controller via RS485 network (maximum 4 controllers).

The main controller must be configured with a unique IP address.

3.5.0.4 Connecting single doors with ACTpro-100s



Door stations (ACTpro-100 or ACTpro-120) can be connected via RS485 network.

Maximum of 15 door stations on network1 and 16 door stations on network 2.

3.5.0.5 Connecting to ACTpro-100 and Aperio locks



Door stations (ACTpro-100 or ACTpro-120) can be connected via RS485 network on doors network 1 and Aperio hubs can be connected via RS485 to doors network 2.

Maximum of 4 hubs and 16 Aperio wireless locks is supported per controller.

| From | То | Network Type | Cable Type |
|-------------------|--------------------|--------------|--|
| LAN | ACTpro controller | TCP/IP | CAT 5/6 |
| ACTpro controller | ACTpro readers | ACT protocol | 8 Core screen (Example Belden 9504 (24 AWG) or equivalent) |
| ACTpro-1500 | ACTpro controllers | TCP/IP | Cat 5/6 |
| ACTpro-1500 | ACTpro controllers | RS485 | Belden 9501 (24 AWG) |

3.6 Wiring Push Button (PB)

Push button is connected between PB input and 0V. When push button is pressed the main relay is activated for the configured time.

Push button is also referred to as exit button, egress button, request to exit.



3.7 Wiring Door Contact

Connect door contact between DC input and 0V.



3.8 Break Glass monitoring only

The break glass monitoring features only monitors the break glass status and does not remove power from the lock. Vanderbilt assumes a double pole break glass unit is used, one pole to disrupt the power to the lock the second pole for monitoring.

When the break glass is not activated the B/GL input pin is held low at 0V. When the break glass device is activated the B/GL input pin will lose the 0V (goes high) and report a break glass event. The lock should be wired such that when the break glass is activated power to the lock is removed.



| Label | Description | Label | Description |
|-------|---------------|-------|------------------------|
| А | Relay | С | Break glass monitoring |
| В | Magnetic lock | | |

3.9 Fire override configuration

To release doors on fire alarm activation:

- 1. In **ACT Manage > Manage > Door Group**, create a new door group that contain all of the doors that should unlock in the event of a fire alarm activation.
- 2. Assign the new door group to Settings > Doors > Fire Override Doors in the drop-down list.
- 3. Wire the fire alarm panel (A) to the ACTpro-1500 as shown below. **NOTE**: The fire panel must be connected to all controllers:



While the 0V signal is maintained at the AUX input on Door 1 of each controller, the doors in the **Fire Doors** group continue normal operation.

When the 0V signal is removed from any controller, the doors in the Fire Doors group on that controller are unlocked. The fire doors remain unlocked until the 0V signal is restored.

3.10 Interlock/airlock configuration

To allow only one door to open at a time:

1. Wire the interlock doors.

Link OP3 and AUX I for each new door. For example, the following diagram shows how to interlock two doors: when the first door is open, the second door is locked, and vice versa.



To interlock additional doors, continue linking OP3 and AUX I for each new door.

2. In ACT Install, for each interlock door, click **Advanced Setup > Doors >** *<Door name> >* **Operations**, select the **Interlock** check box, then click **Save**.

When Interlock is enabled on a door, the door is locked when the AUX input is active.

When the door is open, OP3 is active and pulls Aux I low (0V) on all interlock doors.

3.11 Intruder panel wiring

To arm/disarm an intruder panel:

1. Wire the intruder alarm panel to the ACTpro-1500 as shown:



- A Intruder alarm panel
- **B** Connect the AUX Relay output from the controller to arm input on alarm panel. The AUX Relay can be set to pulse or toggle. Toggle by programming the AUX Relay time to zero.
- С (Optional) Connect a signal from the alarm panel to indicate armed or disarmed status. If OV is connected to AUX Input, the panel is armed.
- 2. Wire the door from which the system will be armed/disarmed.
- 3. Program the ACTpro controller:
 - a. In ACT Install, click Advanced Setup > Doors > <Door name> > AUX Relay, select the Arm Intruder Panel check box, then click Save.
 - b. If the alarm panel provides a signal to indicate its armed/disarmed status, then in ACT Install click Advanced Setup > Doors > <door#> > Operations, select the Intruder Panel check box, then click Save.
 - c. In ACT Manage, for each user that will be allowed to arm and disarm the panel, click Manage > Users > <User name> > Options, select the Arm/Disarm check box, then click Save.

Note: Make sure the user is enabled.

- 4. To arm the system, a user with arm/disarm rights should press the tick key on the keypad then present their card. Once the intruder panel is armed (as monitored by the AUX I PIN), the Door will lock.
- 5. To disarm the system, a user with arm/disarm rights should press the tick key on the keypad then present their card.

If multiple doors should lock when the intruder panel is armed then each door must monitor the alarm status.

If the intruder panel is not being monitored then only the door that is wired to control the intruder

panel will lock.

4 Defaulting the controller and configuring the IP address

This section describes the following.

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| 4.1.3 Defaulting the static IP address | |
| 4.1.4 Changing static IP address on the ACTpro Controller | |

4.1 Defaulting the Controller and IP Address Configuration

The ACTpro-1500 has two DIP switches.



• DIP switch 1: DHCP

Enables DHCP or Static IP address mode.

• DIP switch 2: DEFAULT

Defaults the controller or the Static IP address.

4.1.1 Factory default the Controller (DIP switch 2)

The ACTpro Controller may be defaulted to factory settings. This will completely erase the controller memory. All information including card details will be erased and the static IP address will be reset to 192.168.1.60.

To default the ACTpro Controller:

- 1. Power down the ACTpro Controller.
- 2. Set the **DEFAULT** DIP switch 2 to **ON**.
- 3. Hold down the Tamper spring.
- 4. Apply power to the ACTpro Controller.
- 5. Wait approximately 5 seconds, until the controller confirms default completed by sounding the buzzer.
- 6. Release the Tamper.
- 7. Power down the ACTpro Controller.
- 8. Set the DEFAULT DIP switch to OFF.
- 9. Re-apply power.

4.1.2 DHCP/static IP addressing (DIP switch 1)

The ACTpro Controller is shipped with the DHCP enabled and can be configured to obtain an IP address from a DHCP server or use a static IP address.

- 1. Power down the ACTpro Controller.
- 2. Set the DIP switch to its new position.
 - a. DHCP IP addressing: Move DIP switch 1 to ON
 - b. Static IP addressing: Move DIP switch 1 to OFF

Note: Default static IP address is 192.168.1.60.

3. Re-apply power to the board.

4.1.3 Defaulting the static IP address

The static IP address can be reset to the default value of 192.168.1.60.

1. Power down the ACTpro Controller.



Ensure nothing is connected to the tamper input terminal and the tamper spring is not pressed, otherwise the following steps will factory default the controller losing all information.

- 2. Set the DHCP DIP switch 1 to OFF.
- 3. Set the DEFAULT DIP switch 2 to **ON**.
- 4. Re-apply power.
- 5. Wait approximately 5 seconds, until the controller confirms default completed by sounding the buzzer.
- 6. Remove power.
- 7. Set the DEFAULT DIP switch 2 to OFF.
- 8. Re-apply power.

Note: The static IP address can be changed via the web interface or using ACT Software.

4.1.4 Changing static IP address on the ACTpro Controller

- 1. Connect ACTpro Controller to the IP network.
- 2. Open a web browser on a PC (for example, Microsoft Internet Explorer, Google Chrome, etc.).
- 3. Enter http://<NetBIOS address>, e.g. http://ACT1500-07116



4. Logon details:

Username: *installer* Password: 999999

- 5. Choose Communication menu and set the following:
 - Static IP Address
 - Network Mask
 - Default Gateway
- 6. Press Save.

Note: Use the new IP address when connecting to the controller.

| Controller Address | 1 | |
|--------------------|-------------------|--|
| Static IP | 192.168.1.60 | |
| Network Mask | 255.255.255.0 | |
| Default Gateway | 192.168.1.254 | |
| MAC Address | 90:c6:82:90:1b:cc | |
| NetBIOS Name | ACT1500-07116 | |
| TCP Port Num 1 | 10001 | |
| TCP Port Num 2 | 10003 | |
| DHCP Enabled | Enabled | |
| DHCP Address | 172.27.1.82 | |

5 Configuring a lock with a deadbolt

This section describes the following.

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5.1 Configure a lock with a deadbolt

ACT Enterprise 2.11 and later supports the operation and monitoring of door locks with deadbolts. The system can be configured so that deadbolts are withdrawn on an access/exit granted event, and are optionally held withdrawn for a specified timezone. Deadbolt position can be monitored, and OP2/OP3 used to trigger, for example, an alarm if the door is held ajar, or the deadbolt is unexpectedly unsecured.

- Locks with deadbolts are supported on the ACTpro-1500 family of controllers, and the ACTpro-100 family of door stations.
- i
- Supported firmware versions:
 - v1.09.03 or later on ACTpro-1500 family controllers
 - v1.26 or later on ACTpro-100 door stations

This guide is written for installers who will install deadbolt locks on a customer site and configure the locks to work with the customer installation of ACTpro-1500 Door Controller. Detailed instructions are provided for the wiring and configuration of the following lock types:

- ASSA ABLOY Hi-O door control unit (e.g. DAC-564)
- ASSA ABLOY monitored deadbolt lock (e.g. EL573)

Other lock types are supported similarly. Refer to the manufacturer documentation for hardware and wiring specifications to establish the appropriate connections.

5.1.1 Prerequisites

- Verify that the ACT controller supports deadbolt functionality. To do this, in ACT Install, click Advanced Setup > Controllers/Hub Groups, click the controller name, then click the Capabilities tab. Supports deadbolt should have a value of True.
- The ACT controller/door station must be installed and wired as follows:

| | | Connected to | | | |
|---|------|--|--|--|--|
| ACTpro 1500 ACTpro 100 connection connection | | ASSA ABLOY Hi-O door control unit (e.g. DAC-564) | ASSA ABLOY monitored deadbolt lock (e.g. EL573) | | |
| BG/EDR | B/GL | REL-1 NO | E | | |
| | | (To detect if the deadbolt is extended or retracted.) | (Low when bolt out, secured.) | | |

| | | Connected to | | |
|---|---|--|--|--|
| ACTpro 1500 connection | ACTpro 100 connection | ASSA ABLOY Hi-O door control unit (e.g. DAC-564) | ASSA ABLOY monitored deadbolt lock (e.g. EL573) | |
| AUX RELAY | AUX RELAY | BUTTON IN | C - Deadbolt lock | |
| Note: This relay will fire on an access/exit granted event. | Note: This relay will fire on an access/exit granted event. | (To trigger the deadbolt.) | (0V applied retracts deadbolt.) | |
| MAIN RELAY | MAIN RELAY | Door strike | Door strike | |
| | | (To control the latch.) | (To control the latch.) | |
| OP2 OP3 | OP2 OP3 | (Optional) Connect to an e be triggered if there is a de door ajar, door forced or de | external device that should adbolt problem such as adbolt unsecured. | |

Wiring diagrams for connecting an ASSA ABLOY monitored deadbolt lock and an ASSA ABLOY Hi-O control unit to an ACTpro-1500 controller are shown below for illustrative purposes. Other lock types are supported similarly. Refer to the manufacturer documentation for hardware and wiring specifications to establish the appropriate connections.



ASSA ABLOY monitored deadbolt lock wiring to ACTpro-1500

| Α | Alarm (optional) | D | Monitor deadbolt position |
|---|------------------------------|---|---------------------------|
| в | Door contact (optional) | Е | Trigger the deadbolt |
| С | Door strike (controls latch) | | |

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ASSA ABLOY Hi-O deadbolt lock wiring to ACTpro-1500

| Α | Monitor deadbolt position | D | Door strike (controls latch) |
|---|---------------------------|---|--|
| в | Door contact (optional) | Е | Connect Hi-O lock to terminals 5, 6, 7 and 8 |
| С | Trigger the deadbolt | | |

• The ACT controller/door station should already be installed and configured in ACT Install.

5.1.2 Operation notes

• In the event of a fire, both the main relay and the aux relay fire until the fire condition is cleared. If the system is wired as recommended, both the deadbolt and the door strike are energised while the fire condition is active, allowing free access through the door.

6 Status Indicators

6.1 ACTpro-1500

Status indicators appear on the front of the ACTpro-1500 Door Controller.



The meaning of each indicator is described below.

(A) Power / System Running

This indicates that the ACTpro controller has power.

(B) Communications

Constant illumination indicates that all enabled door stations are online.

Flashing indicates that one or more door stations are offline.

\bigwedge

(C) Fault

Illuminates to indicate a fault on the system.

Possible causes are:

- Tamper open: ACTpro controller housing is not closed.
- Break Glass: ACTpro controllers provide a method to monitor an Emergency break glass switch via the B/GL input. The Fault LED illuminates if the Emergency break glass switch is activated.
- ACFault: ACTpro-1500 controller accept an AC present signal from a PSU. This is wired into the AC MON input on the PCB. When the PSU has no AC supply the fault is active.
- Door Station offline: When one or more enabled door stations are not communicating with the ACTpro controller the Fault LED illuminates and the appropriate network green LED on the PCB flashes.
- Low Supply Voltage: When voltage to the +12V/24V terminal is less than +9V.
- Fuse Blown: The +12V output on the READER terminals is current limited to provide short circuit protection. The Fault LED illuminates if too much current is drawn from this connection.

7 Troubleshooting

7.1 Unknown card

The card has not been assigned on the system.

7.2 Access denied

Ensure that the user is enabled and that they have the appropriate access rights.

7.3 Cannot connect to ACTpro-1500 controller

On the controller PCB ensure that the green LINK LED on the Ethernet jack is active. If the LED is is inactive, check that the network point is connected to a switch.

- Ensure that the IP address is set correctly.
- Ping the controller using the following settings:
 - NetBIOS name, for example: ping act1500-07116
 - IP address for example: ping 192.168.1.60



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