



Access Reader Interface Panel ICV100



Reference image only*

IDCUBE's ICV100 Access reader Interface panel is the next generation advanced open architecture access reader & I/O interface platform that runs on embedded Linux, seamlessly integrates with "Access360" & "INest" applications. The ICV100 access control interface panel comprises of HID's Networked reader interface Vertx EVO V100 along with optional accessories, i.e., UL certified power supply, charging circuit, battery, and tamper switch. The enhanced platform offers an improved processor and increased memory, plus feature an embedded crypto memory chip that provides a secured layer of encryption to onboard sensitive data.

The ICV100 connects to the ICV1000 through a high speed RS-485 network. The ICV1000, in turn, communicates with the system host via industry standard TCP/IP protocol over 10/100 Mbps Ethernet or the Internet. This architecture minimizes the impact on corporate LANs by using only one TCP/IP address for every 32 interfaces and by handling low-level transactions on the RS-485 network. The ICV100 features onboard flash memory, enabling program updates to be downloaded via the network

KEY FEATURES

Connects to and reports activities to IDCUBE's Access360 & INest access control solution over an IP network

Controls up to 2 readers or 2 doors

Some inputs can be configured as general purpose inputs

Reports supervised inputs

Connects to the V1000 via RS-485

Receives and processes real-time commands from the ICV1000. Reports all activity to the ICV1000.

Provides fully functional offline operation when not actively communicating with a host application, performing all access decisions and event logging

Access control decisions based on facility code (degraded mode)

Non-Latching Relay Outputs: 2 door strikes (configurable) 2 auxiliary devices: door held/forced alarm, alarm shunt, host off-line (comms down), or general purpose

UL 294 recognized components.

*The panel image illustrates component assembly and may not represent the actual controller board

TECHNICAL SPECIFICATIONS

Characteristic	Parameter
Audio / Visual indicators	Power LED and RS-485 Communications LED
Communication Ports	RS-485 — two wire. Two SIA standard Wiegand/Clock-and-Data ports
Input Circuits	7 (2-REX, 2-Door monitor, AC fail, Battery fail & Tamper) 500 feet (150 m), 2-conductor, shielded, using ALPHA 1292C (22 AWG) or Alpha 2421C (18 AWG)
Output Circuits	4 (2-Lock, 2-Aux) 500 feet (150 m), 2-conductor, using ALPHA 1172C (22 AWG) or Alpha 1897C (18 AWG). Minimum wire gauge depends on cable length and current requirements.
Power Supply Requirements	60 mA @ 9-18 VDC (with no readers connected) Recommended: Supervised linear power supply with battery backup, input surge protection, and AC fail and battery low contact outputs. When VertX is supplying power to readers the requirements are 600 mA @ 9-18VDC. The V100 can supply 500 mA to two readers
RS-485	4000 feet (1220 m) to host using Belden 3105A, 22 AWG twisted pair, shielded cable
Housing Material	UL94 polycarbonate
Mounting	Mount to any wall surface, using four screws. For UL compliance, one or more gateways can be mounted inside a locking customer supplied NEMA-4 rated enclosure
Operating Temperature	0° C to 50° C (32° F to 122° F)
Operating Humidity	5 - 95% Relative humidity (non-condensing)
Dimensions	147.32 mm x 122.55 mm x 32.38 mm; 5.8" x 4.825" x 1.275" (Board only)
Weight	0.35 kg; 12.4 oz (Board only)
Warranty	Warrantied against defects in materials and workmanship for 12 months
Certification	UL294 and UL 1076 (US) CSA 205 (Canada) FCC Class A CE Mark, EN 50130-4 (EU) EMC for Canada, EU (CE Mark), Australia (C-Tick Mark), New Zealand, Japan
Part Code	ICV100-EXXXXXX ¹ (HID Vertx EVO V100)

¹EXXXXXX refers to enclosure type along with accessories such as power supply, charging circuit, battery, and tamper switch; Please refer enclosure datasheet for details

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