InVid Tech
Innovative Video Technology

Network access controller INVID-ICON-PRO allows you to control access to your building with electromagnetic or electromechanical locks. It automates vehicle access, tracks time and attendance, and more.

The controller provides several connectivity options including Wi-Fi** or Ethernet + Power over Ethernet (PoE), and can support up to two Wiegand readers or eight RS-485 enabled readers with Open Supervised Device Protocol (OSDP) support for next-generation secure readers.

With four relay outputs, it can control locks or other devices, has eight inputs to control exit buttons and door open sensors, and provides auxiliary contacts for emergency lockout.

The controller's open architecture allows it to integrate with cloud or local access control systems. And the device can be quickly integrated into any customer solution using the built-in Message Queuing Telemetry Transport (MQTT) low-code application programming interface (API).

INVID-ICON-PRO

Controller 4 Relay Poe Wi-Fi**

Features

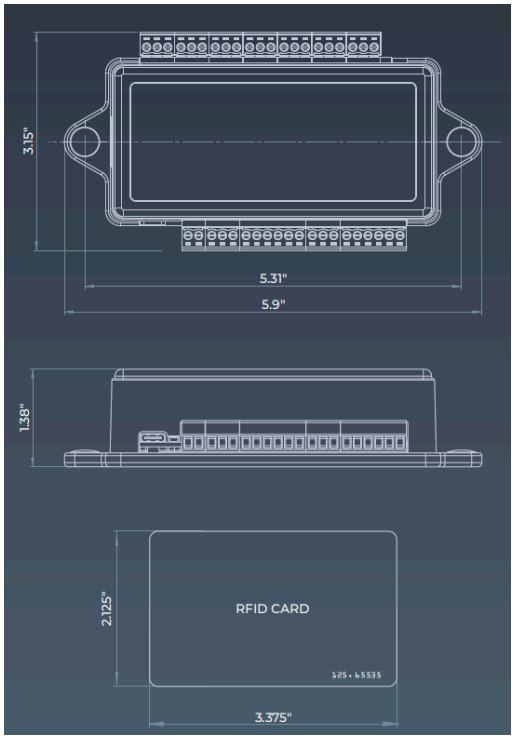
- Resilient MQTT Protocol
- WiFi** & Ethernet Connection
- Power 12/24VDC & PoE
- Web Base interface
- Tested for 5 Million Relay Cycles
- Up to 4x Relay NO/NC

Device info	
Processor	ESP32-S3
Over-the air (OTA) update	Yes
Built-in web server	Yes
MQTT API provided	Yes
Users	100 000
Events	250 000
Communications	
Wi-Fi**	802.11 b/g/n 2.4 GHz
Ethernet	RJ-45 (10/100 Mbit)
Wiegand Readers ports	2
Open Supervised Device Protocol (OSDP) via RS-485 port	1
USB Ports (Type-C)	Yes
Physical connections	
Inputs	8
Outputs	4 Relay
Emergency In	1
Tamper G-sensor	Built-in
Electrical characteristics	
Input voltage	12-24 VDC +/- 10 % PoE IEEE802.3/802.3af: 2 A (24 W)
Operation current (MAX) 12 VDC	0.5 A (6 W)
Operation current (AVG) 12 VDC	0.21 A (2.52 W)
Relay contact rating 30 VDC	1.5 A (45 W)
Output short-circuit protection	Yes
Power supply reverse polarity protection	Yes
Work distance	
RS-485*	3280 ft (1000 m)
Wiegand	328 ft (100 m)
Wi-Fi 2.4 GHz (open space)**	4-8 ft
Ethernet RJ-45 (10/100 Mbit)	328 ft (100 m)
Environmental requirements	
Operating temperature	-22°F ~ 158°F (-30°C ~ 70°C)
Ingress Protection rating	IP50
Physical characteristics	
Housing material	ABS plastic UL94 V-0
Mounting method	Wall mount/Din rail mount (option)
Dimensions (length, width, height)	5.9" x 3.15" x 1.38" (150 x 80 x 35 mm)
Weight	6.75 oz (191 g)

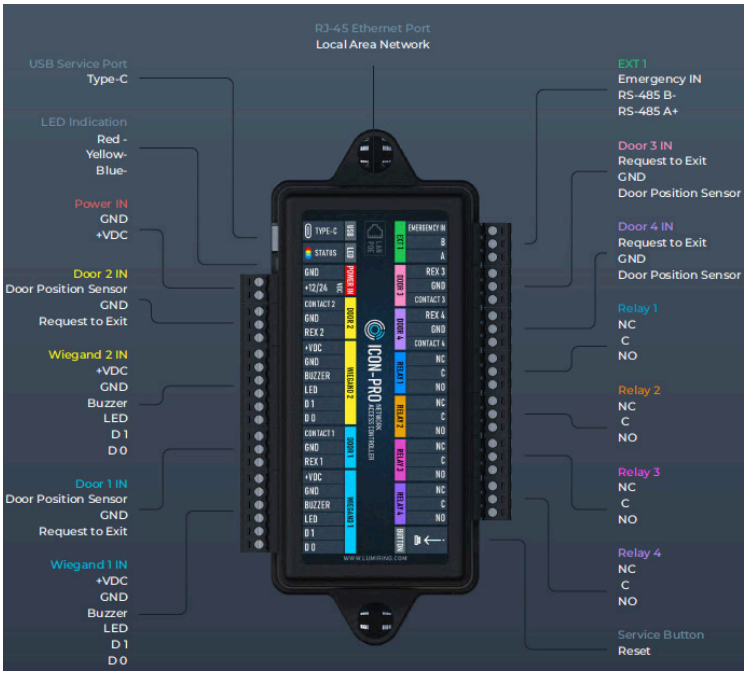
** See general specifications for RS485 interface.*

***Wi-Fi - is not recommended for any long range communication, short range only (4-8 feet). 2.4Ghz Wi-Fi only. Wi-Fi is recommended for configuration, troubleshooting and updates.*

Device Dimensions



Device Connection Terminals



Ordering Information

INVID-ICON-PRO: Access Control Device