DIU 230
Power over Ethernet Door Interface Unit

Features that make a difference:

- Door and reader power with Ethernet communications via a single Cat 5e/6 cable
- Eliminates the need to have mains power and a power supply at the door
- Provides local power for a full door set including up to 2 Maglocks.
- Up to 1.9 Amps available at the door*
- Door Interface Electronics held on one board
- Provides ‘coded lock’ interface between door hardware and card reader
- Dedicated Fire Alarm, Breakglass and Tamper inputs
- Wiegand interface for 3rd party exit reader
- Designed for ease of installation and maintenance
- Onboard battery backup & patented power assist feature
- Used with the AC2000 range
- Requires Phihong Midspan injector

Where a high level of security is required and cabling must be kept to a minimum, the PoE+ DIU 230 offers the ideal solution. Used as part of the AC2000 security management system, the DIU 230 is a complete package that combines Ethernet communication with battery backed lock and door power.

The DIU 230 works in conjunction with the Phihong Midspan power injector between the server and the door. Using just a single Cat 5e/6 cable the DIU 230 eliminates the need for a mains power supply at the door. Where local power is not readily available, the DIU 230 can offer significant cost savings.

Benefits

The DIU 230 has an increased current capacity of up to 1.9 Amps*. This allows a wide range of door locks or a pair of locks and end devices to be used. The Phihong range of PoE+ midspans, as below, are required.

The unit incorporates a Wiegand interface which allows a 3rd party Wiegand read head to be directly connected. This provides a low cost alternative if an LCD and keypad are not required for the exit side of the door.

Available as a board only version or as lockable wall mounted enclosure with storage for back up battery.

When fitted with a back-up battery, the DIU 230 and any equipment attached to it will continue to work through a power failure. For example, a 7.2AH battery could keep a door operational for up to 4 hours.

* Up to 1.9 Amps at 12V includes all attached devices, using a CEM recommended Phihong Midspan and up to 50m of CAT5e/6 cable at room temperature.
Specifications

Physical
- Size:
  - Board only: 193mm x 147mm x 20mm (7.6” x 5.8” x 0.8”)
  - Enclosure version: 460mm x 250mm x 90mm (18.1” x 9.8” x 3.5”)
- Weight:
  - Board only: 0.65Kg
  - Enclosure version: 3.65Kg
- Enclosure Colour: Light Gray
- Power requirement: PoE+ 802.3at compliant
- Phihong Midspan with 33.6W per port
- Temperature: -10°C to +55°C (subject to battery specifications)
- LED Indicators:
  - Status LED – Reflected on read-head
  - Lock Secure Contact
  - Lock Safe
  - Holder LED
  - Switcher Okay
  - Battery status LED

Functionality
- Inputs:
  - Door Position
  - Lock Status
  - Exit push button
  - Break Glass unit
  - Fire Input
- Outputs:
  - Lock Secure/Safe 12V Relay Output
  - Door Holder 12V Relay Output
  - Sounder 12V Open Collector
  - Dedicated DCM300 power output
  - Total output power capability up to 1.9 Amps Midspan dependant.
  - Intelligent PoE+ power sharing between attached devices and battery charging.
- Memory:
  - 32kB Flash memory

Communication Interface
- To Card Reader:
  - Ethernet and RS485 cable
- Connection:
  - RJ45 and 2 part screw terminals

Regulatory
- Agency Certifications:
  - FCC Part 15*

Midspan Options (required)
- Phihong 1 port Midspan (POE36U-1AT)
- Phihong 4 port Midspan (POE125U-4AT)
- Phihong 8 port Midspan (POE576U-8AT)
- Phihong 16 port Midspan (POE576U-16AT)

To order contact cem.sales@tycoint.com or call +44(0) 2890 456 767

Product Code Description
- DIU/700/230: Board only version
- DIU/700/231: Enclosure version

Related Products
- AC2000
- AC2000 Airport
- AC2000 Lite

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