CEM SYSTEMS

From Tyco Security Products

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 battey 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.

The DIU 230 supports a range of PoE+ mid-spans, offering the highest levels of flexibility, with sufficient power for almost every situation.

Power Over Ethernet Access Control

The DIU 230 offers a complete IP based access control solution that eradicates the need to provide local mains power at the door. The unit installation is classed as low voltage and can be completed by IT network installers without the expense of an electrician or electrical contractor.
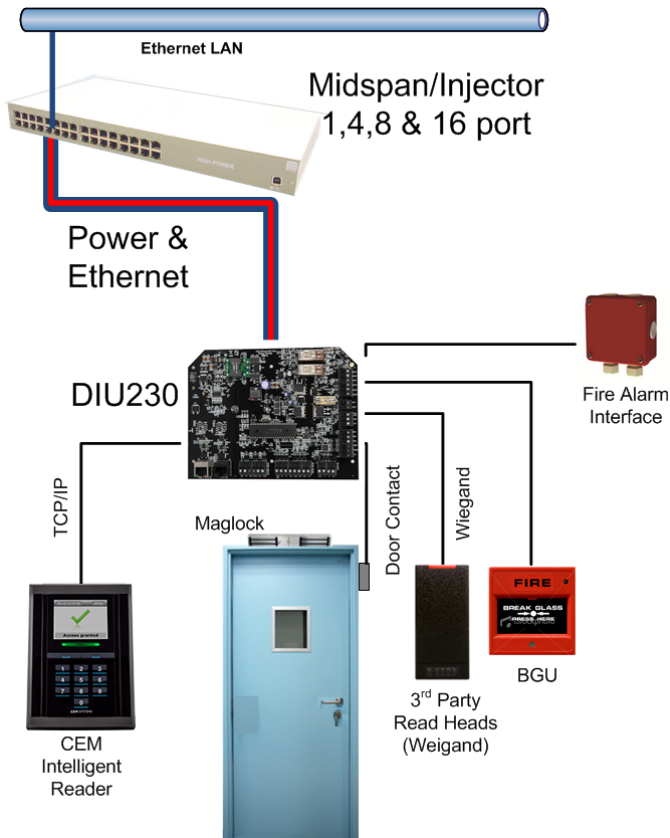
Benefits

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+ IEEE 802.3at compliant

Environmental . . . . Temperature -10˚C to +55˚C
(subject to battery specifications)

LED Indicators . . . . * 3x Status LED – Reflected on read-head
* RS485 Activity LED
* 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*

Compatible Midspans

Phihong 1 port midspan Phihong POE29U-1AT(PL)D
Specification for Hi Power PoE Injector:
Must meet IEEE802.3AT specification, and be capable of supplying at least 30W of injected power.

*applies to enclosure version only

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

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

Related Products

AC2000
AC2000 Airport
AC2000 Lite

www.cemsys.com