CEM SYSTEMS

DIU 220
Power over Ethernet Door Interface Unit

OVERVIEW

The DIU 220 (PoE Door Interface Unit) combines Ethernet communications and sufficient power to support a complete door set, including an In reader, Out reader and a standard 650mA maglock, over a single Cat5/6 cable. The DIU 220 eliminates the need to include a power supply unit (PSU) at the door and expense of providing mains power to the PSU.

The DIU 220 is designed primarily to provide power to a door lock, as well as local power to a CEM reader when a high level of security is required. It has onboard inputs which can be used to monitor conditions such as a fire alarm or activated break-glass condition.

The DIU 220 improves door security by allowing the installer to locate lock controls on the secure side of a door, with an intelligent CEM reader on the unsecured side. The DIU 220 communicates with an intelligent CEM reader via the readers slave communication channel. Upon a valid swipe at the card reader, the reader will instruct the DIU (over the communications channel) to activate the appropriate output to release the lock using a coded data signal (i.e. coded lock).

As an added benefit, the DIU 220 monitors the status of all standard door monitoring inputs; inputs on an intelligent CEM reader are free for use as general purpose inputs. The DIU 220 is supplied in a plastic enclosure complete with PoE backplane and an output for an additional door holder.

DIU 220

FEATURES

- Ethernet communications and power via a single Cat5/6 cable

- Eliminates to need to have mains power and a PSU at the door

- Provides local power for:
    - In reader
    - Out reader
    - Maglock
    - Sounder
    - Door Holder

- 11.5V @ 1.6A power output*

- Door Interface Electronics held on one board

- Provides 'coded lock' interface between door hardware and card reader

- Fire alarm and break glass inputs for emergency door and holder release

- Weigand interface for 3rd party exit reader.

- Designed for ease of installation and maintenance using 2 part connectors throughout

- Compliant with EN55022 (emissions) and EN55024 (access control immunity)

* 1.6A @ 23ºC or 1.4A @55ºC

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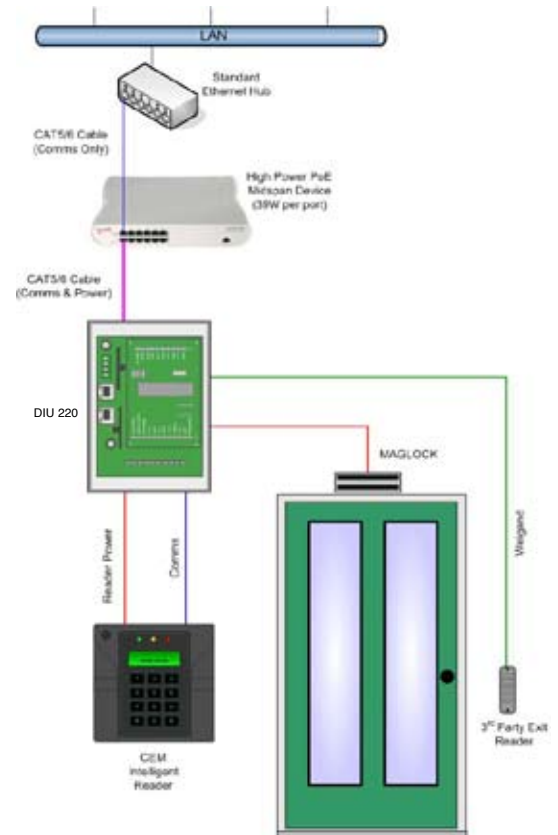## PRODUCT HIGHLIGHTS

Power Over Ethernet Access Control

DIU 220 incorporates a High power PoE splitter module, delivering sufficient power and Ethernet communication to reliably power a complete door set (consisting of In and Out readers 650mA Maglock, door holder, sounder and strobe) using one CAT 5/6 Ethernet cable.

Benefits

The DIU 220 offers a complete IP based access control solution. Eradicating the need to provide local mains power and AC/DC power supplies at the door, the DIU 220 installation is classed as low voltage and can be completed by IT network installers without the expense of an electrician or electrical contractor.

Low cost exit solution

The DIU 220 incorporates a weigand interface which allows a 3rd party weigand 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.

† see dislosure below

TECHNICAL SPECIFICATIONS

PHYSICAL

Size	160 x 160 x 90 mm (6.3 x 6.3 x 3.5in)
Weight	0.75Kg
Housing	Flame retardant polycarbonate
Colour	Light grey with transparent lid
Power	From High power midspan device (PowerDsine Midspan)

Environmental
- Temperature   up to 50ºC (up to 122ºF)
- Humidity   95% non condensing

LED Indicators   +12 Volts OK, Lock supply OK, Lock Status, Watchdog, Fault, Battery Low, RS485 Rx and TX.

FUNCTIONALITY

Inputs
* Door Position
* Lock Status
* Exit Push Button
* General Purpose
* = 4 state tamper protected inputs

Outputs	Three 11.5V open collector outputs limited to 1.5A (Door Lock, Door Holder and External Sounder)
Reader Output	11.5V, limited to 800mA
Memory	32kB Flash memory

COMMUNICATION INTERFACE

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

PRODUCT CODE

DIU/700/220	DIU 220 (Complete with PoE backplane and enclosure)

Product specifications and availability is subject to change without notice. Certain product names mentioned herein may be trade names and/or registered trademarks of their companies.
† Diagrams shown are for illustrative purposes only. Refer to product manual for recommended cabling.

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