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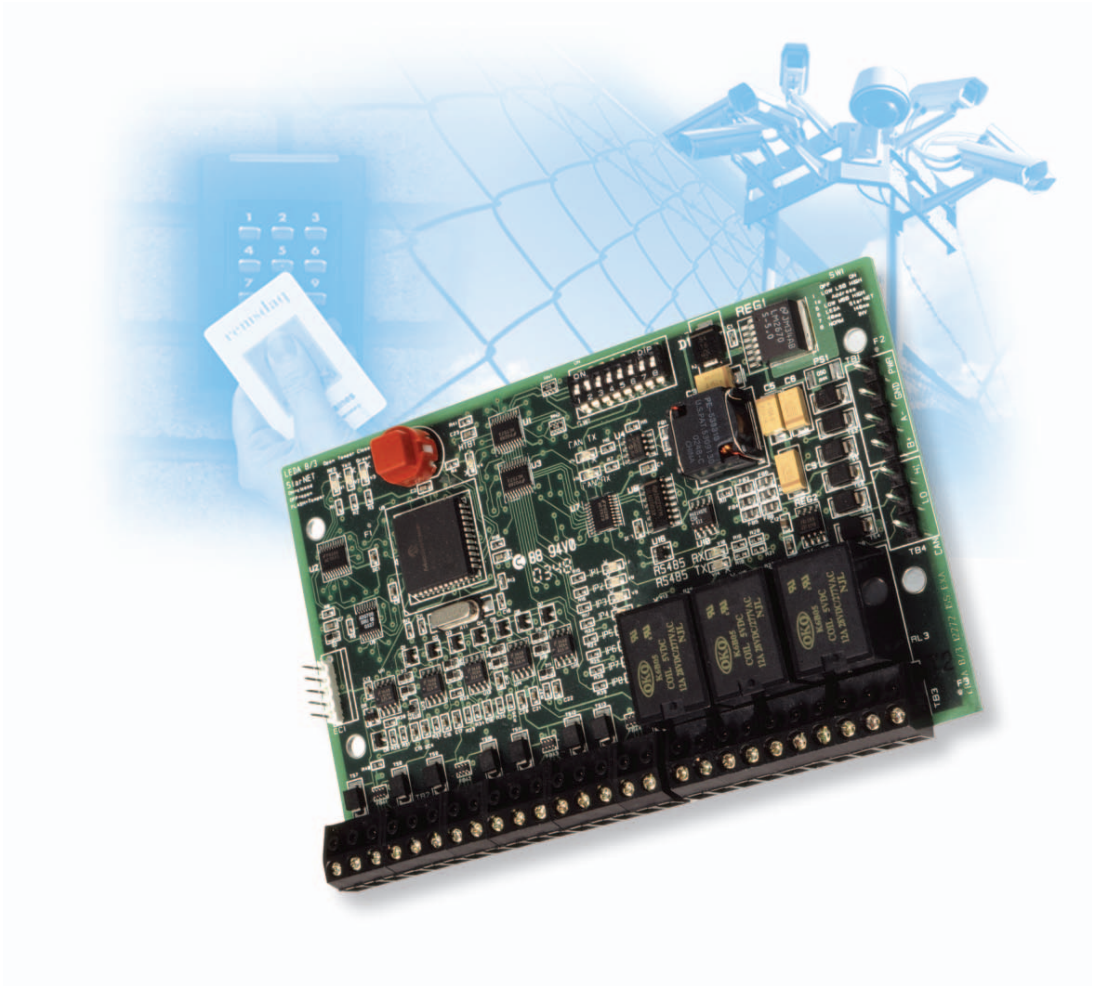
EXTENDING THE BOUNDARIES OF TECHNOLOGY

StarNET

evolution of proven technology

StarNET LEDA 8/3



FEATURES

- Compact alarm interface unit
- Suitable for distributed PIDS applications
- Supports both CAN and RPI protocols
- Up to 24 supervised inputs (CAN applications only)

The StarNET LEDA 8/3 is a compact alarm interface unit designed to integrate into the Remsdaq StarWatch security management system.

Remsdaq Part Number 12272

It is housed in its own enclosure and is capable of communicating with either a StarWatch master station, RPI poller or StarNET ACP. The StarNET LEDA is designed as a form, fit and function replacement for the 12056 LEDA 8/3.

Each StarNET LEDA is equipped with:-

- 8 physical supervised alarm inputs.
- Unique 3 into 1 technology provides up to 24 EOL supervised inputs. StarNET ACP only.
- 3 changeover relays.

Up to 31 StarNET LEDA Modules can communicate with either an RPI host (StarGate I/II) or StarWatch master station at distances of up to 1200 m. When connected to a StarNET ACP, 12 units can be supported. The StarNET LEDA communicates with its RPI host at a fixed rate of 9600 baud.

When interfacing to a StarNET ACP host using the CAN bus protocol StarNET LEDA will communicate at 125 Kbits per second at a maximum distance of 400m.

The StarNET LEDA is housed in a compact IP55 enclosure and requires power from a 12 vdc supply.

There are two configuration settings dependent on how the StarNET LEDA is to be used. These are:-

- 8/24 input mode – 24 input mode for StarNET ACP only.
- Station address – required for both applications.

When operating in conjunction with a StarNET ACP, the StarNET LEDA has the ability to connect three alarm inputs to each physical input using special colour coded termination devices. This allows a significant reduction in field wiring, lowers the cost of alarm integration and can still provide individual annunciation of each sensor and its associated tamper alarm.

Processor

PIC 18F458 Microcontroller running at 40MHz
32 KBytes of on board Flash memory
1.5 KBytes of on board RAM
256 Bytes of EEPROM
Conforms to the CAN 2.0B spec

Communications Protocol

RPI (Remsdaq Protocol Interface)
CAN Bus

Dimensions

142mm x 89mm – PCB
170mm x 135mm x 78mm - enclosure

Power Requirements

External Supply: 10V to 18V DC
Consumption: 180mA @ 12V DC

Alarm Imput

8 physical supervised alarm input connections
24 logical supervised alarm input connections
Special colour coded termination devices

On-Board Relays

3 changeover (NO/NC)
Each relay rated at 2A at a DC voltage of 30V

LED Indications

- LED1 - Physical Input 1
- LED2 - Physical Input 2
- LED3 - Physical Input 3
- LED4 - Physical Input 4
- LED5 - Physical Input 5
- LED6 - Physical Input 6
- LED7 - Physical Input 7
- LED8 - Physical Input 8
- LED9 - logical input status 1,4,7,10 22
- LED10 - logical input status 2,5,8,11.....23
- LED11 - logical input status 3,6,9,12.....24
- LED12 - OP1
- LED13 - OP2
- LED14 - OP3
- LED15 - RS485 TX
- LED16- RS485 RX
- LED17 - Heartbeat
- LED18 - CAN bus TX
- LED19 - CAN bus RX

Please note that in 8 input mode – LEDs 9-11 do not operate.

Environmental Specification

Operating temperature -40˚C to +70˚C.
Storage temperature -40˚C to +70˚C.

The 12272 operates with a relative Humidity up to 95% (non-condensing) at a temperature of +40˚C.

EMC Requirements

BS EN 55022	Radiated and Conducted Emissions
BS EN 50082-1	Generic Immunity

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