CO-016 ADDRESSABLE CARBON MONOXİDE DETECTION AND CONTROL PANEL

CO-016 Addressable Carbon Monoxide Detection and Control Panel is the control unit of the carbon monoxide system and works as a Scada system with the CO540 Carbon Monoxide Detector.

The CO-016 Carbon Monoxide Control Panel is designed to process the measurement data from the CO 540 detectors and to perform three-level control according to the scenario created. It can provide three different controls according to the gas levels detected in the detectors. The threshold values for these gas levels are set during installation (can be changed later). When the first 2 threshold values are exceeded, the fans are activated and if it is possible to evacuate the gas in the environment, the system returns to normal position without going into the alarm state. If the 3rd level threshold is exceeded, the control panel goes into the alarm state and stays in this position until reset. In this way, it provides the opportunity to prevent the gas in the environment before it reaches critical levels.

The CO-016 Carbon Monoxide Control Panel communicates with the Redban Addressable Advanced Protocol (RAAP). Thanks to this advanced protocol, it instantly collects measurement data from devices. In addition, the calibration of the devices can be set by the panel. It can operate 80 devices, 48 of which are detectors, in one cycle. It can be increased up to 4 loops and a total of 320 devices can be connected to these loops. There are 2 supervised siren outputs, 3 open collector outputs, alarm and fault relay outputs and 2 24V supply outputs as protected and unprotected on the motherboard. Thanks to the 24V supply outputs, the devices to be included in the system from outside can be supplied from these outputs, considering the current and voltage values. (See the installation guide for detailed information).

GENERAL FEATURES
- IP30 durable and aesthetic ABS plastic case
- Microprocessor based design
- Production with SMT technology
- 16 Programmable Zones
- All threshold levels can be programmed separately for each zone
- Intelligent interactive communication with Redban RAAP protocol
- Define 3 threshold levels for each zone
- Average or Peak value selection
- Continuous supervision of all detectors and modules
- Gas levels can be continuously monitored
- 2 level indicator LEDs for each zone

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REDBAN ELEKTRONİK LTD. STI.
Model: CO-016
Standard Number: EN50130-5 and EN62368-1
Performance Declaration No: 01
Made In Turkey

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TECHNICIAL SPECIFICATIONS

OPERATING VOLTAGE	180-240v AC
POWER CONSUMPTION	100 watt
BATTERY TYPE	Sealed Lead Acid Battery
BATTERY CAPACITY	2 X12v 7A / Saat
NUMBER OF LOOP	1-4
NUMBER OF DEVICES IN THE LOOP	80
MAXIMUM NUMBER OF DEVICES OF THE PANEL	320
ETHERNET CONNECTION	NO
NETWORK OPERATION	NO
BATTERY SHORT-CIRCUIT PROTECTION	YES

SIREN OUTPUTS 1 and 2

OUTPUT TYPE	Relay Normally Open Contact
CONTACT STRENGTH	2A @ 30V DC
FUSE	400 mA, Auto Reset
OUTPUT VOLTAGE	At the most 28 V DC
END OF LINE RESISTANCE	6.8 K Ω 1/4 watt

GENERAL PURPOSE OUTPUTS 1, 2, 3 (SOUND ALARM AND INDICATOR LED OUTPUTS)

OUTPUT TYPE	Open Collector
OUTPUT CURRENT	400mA
OUTPUT VOLTAGE	At the most 28 v DC

ALARM RELAY OUTPUT

OUTPUT TYPE	Normally Open (NO), Normally Closed (NC)
CONTACT STRENGTH	2 A @ 30 v DC

OUTPUT TYPE	Normally Open (NO), Normally Closed (NC)
CONTACT STRENGTH	1 A @ 30 v DC
24V DC PROTECTED VOLTAGE OUTPUT	yes, At the most 400mA
24V DC NOT PROTECTED VOLTAGE OUTPUT	yes, At the most 2A
LOOP CURRENT	Max 300mA
LOOP LOAD	120 Ω
SERIAL DATA OUTPUTS	(USB & RS485)
BAUDRATE	9600 BPS
DATA BITS	8
PARITY BIT	None
STOP BIT	1
FLOW CONTROL	None
DATA DURABILITY	10 Year

MECHANICAL SPECIFICATIONS

CASE MATERIAL	Plastic Case (1.2mm Thickness)
WIDTH	35 mm
HEIGHT	37.5 mm
DEPTH	8.5 mm
WEIGHT	1.8 kg

ENVIRONMENTAL SPECIFICATIONS

OPERATING TEMPERATURE	-10 °C ≈ +55°C
OPERATİNG HUMIDITY RATİNGS	%0 ≈ %95 Relative Humidity
ENVIRONMENTAL CATEGORY	IP30

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