



GENERAL MONITORS

Protection for life.

MODEL DC130

Two-Channel Readout/Relay Module



Features

- Compact Packaging
- Digital Display for Each Channel
- Channel Disable Capable
- Common Relays
- Superior Reliability

Benefits

- Requires less panel or cabinet space
- Provides diagnostic capabilities through visible fault codes
- Can be used as a single-channel module
- Indicates ALARM, WARN & MALFunction Alarms
- Longer product life

Description

The Model DC130 is a two-channel Readout/Relay Module which receives the outputs from two remotely located General Monitors Combustible Smart Sensors and processes these signals to provide a digital readout of the gas concentration in "safe" areas. These concentrations are indicated over the range 0-99% LEL (lower explosive limit). When no gas concentration is detected, the digital display for that channel will show a "0" indicating the channel is in normal operation.

Three relays, common to both channels, are provided for the WARN, ALARM and MALFunction circuits. Relay contacts are rated at 4 amp/117 VAC resistive. Setpoints for the ALARM and WARN relays are adjustable through the use of alarm-set potentiometers mounted on the PC board.

Terminations are made at the rear of the instrument through a plug-in connector. These include connections for input power, relay contacts, smart sensor power, analog input signal from the smart sensor and remote reset for latched alarms.

Provision has been made to inhibit the relays during calibration or alarm setpoint changes. An alarm-inhibit symbol is illuminated when the relays are prevented from operating.

Applications

- Drilling and Production Platforms
- Fuel Loading Facilities
- Compressor Stations
- Oil Well Logging
- LNG/LPG Processing and Storage
- Wastewater Treatment
- Gas Turbines
- Solvent Vapors
- Hydrogen Storage



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System Specifications

Input Current:	0-20mA from Model S104/S106A Smart Sensor
Display Range:	0-99% LEL, flashing 99 for over-range indication
Repeatability:	±2% full scale
Linearity:	±5% full scale
Front Panel Switches:	Reset
Alarm Disable:	Switch on PC board
Alarm Setting:	Pot adjust
Warning Setting:	Pot adjust
Energized/De-Energized Relay Options:	ALARM and WARN set by DIP switch
Latching/Non-Latching Relay Options:	ALARM and WARN set by DIP switch
Channel Enable:	DIP switch selectable
Reset:	One momentary push-button switch
Remote Reset:	Yes
Electrical Classification:	General purpose, non-hazardous areas
Warranty:	Two years
Approvals:	CSA, FM for use with S104/S106A

Environmental Specifications

Temperature Range:	32°F to 140°F (0°C to 60°C)
Storage Temperature Range:	-31°F to 131°F (-35°C to 55°C)
Humidity:	0-90% non-condensing

Electrical Specifications

Input Power:	105-130 VAC/50-60 Hz 205-255 VAC/50-60 Hz 22-30 VDC 8 watts DC130 plus 7 watts for each Smart Sensor
Channel Input Resistance:	250 ohms maximum
Output Power:	24 VDC nominal at 0.25 amp to each Smart Sensor
Status Indicators:	ALARM, WARNING, MALFunction, CALIBrate, READY, RESET

Mechanical Specifications

Dimensions:	2.1" w x 6.9" h x 11.5" d (53mm x 175mm x 294mm)
Weight:	Approx. 3.8 lb. (1.8kg)
Mounting Configurations:	Rack, Panel, Wall, Weatherproof & Explosion-proof Enclosures
Standard Configuration:	DC130-1-1-1-2 110VAC, 24VDC, latch alarm, non-latch warn, de-energized

Specifications subject to change without notice.

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