



GENERAL MONITORS

Protection for life.

MODEL DT230

Two-Channel Readout/Relay Module



Features

- Compact Packaging
- Digital Display for Each Channel
- Channel Disable Capability
- 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 DT230 is a two-channel Readout/Relay Module which receives the outputs from two remotely located General Monitors H₂S Smart Sensors and processes these signals to provide a digital readout of the gas concentration at each of the sensor locations. These concentrations are indicated over the range of 0-20 ppm (parts per million), 0-50 ppm and 0-99 ppm. When no gas concentration is detected, the digital display for that channel will show a "0" indicating that 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

- Refineries
- Drilling Platforms and Rigs
- Gas and Oil Production Platforms
- Mud-logging Operations
- Desulfurization Facilities
- Wastewater Treatment Plants
- Chemical and Petrochemical Plants
- Wellhead Sites
- Oil Recovery/Reinjection



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System Specifications

- Input Current:** 0-20mA with S214/S216A Smart Sensors
- Display Range:** 0-99 ppm, with flashing 99 for over-range indication
- Repeatability:** ±2% full scale
- Linearity:** ±5% full scale
- Front Panel Switch:** 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 S214/S216A

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 DT230 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, Weather-proof & Explosion-proof Enclosures
- Standard Configuration:** DT230-1-1-1-2
110 VAC, 24 VDC, latch alarm, non-latch warn, de-energized, 99 ppm, two active channels

Specifications subject to change without notice.

Represented by:

General Monitors Worldwide



www.generalmonitors.com

Lake Forest, CA

26776 Simpatica Circle
 Lake Forest, California, 92630 Tel:
 +1-949-581-4464
 Fax: +1-949-581-1151
 email: sales@generalmonitors.com

Houston, TX

9776 Whithorn Drive
 Houston, Texas, 77095
 Tel: +1-281-855-6000
 Fax: +1-281-855-3290
 email: gmhou@generalmonitors.com

Ireland

Ballybrit Business Park
 Galway
 Republic of Ireland
 Tel: +353-91-751175
 Fax: +353-91-751317
 email: postmaster@gmil.ie

Singapore

No. 2 Kallang Pudding Road
 #09-16 Mactech Building
 Singapore 349307
 Tel: +65-6748-3488
 Fax: +65-6748-1911
 email: genmon@gmpacifica.com.sg

United Arab Emirates

P.O. Box 61209
 Jebel Ali
 Dubai
 United Arab Emirates
 Tel: +971-4-8815751
 Fax: +971-4-8817927
 email: gmme@emirates.net.ae

United Kingdom

Heather Close
 Lyme Green Business Park
 Macclesfield, Cheshire
 United Kingdom, SK11 0LR
 Tel: +44-1625-619583
 Fax: +44-1625-619098
 email: info@generalmonitors.co.uk