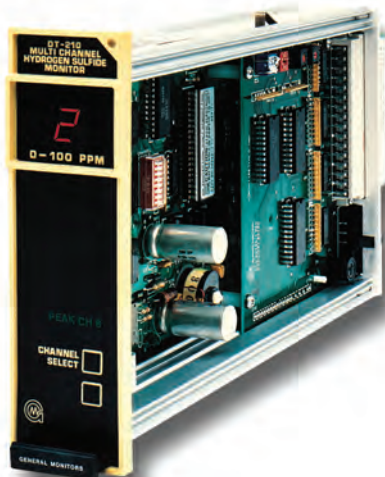




**GENERAL MONITORS**  
Protection for life.

# MODEL DT210

## Eight-Channel Readout/Relay Module



### Features

- Compact Packaging
- Large Digital Display
- LED Readouts for Each Channel
- Common Relays
- Safe, Easy Calibration

### Benefits

- Requires less panel or cabinet space
- Provides clear display of the Peak Channel Reading
- Shows the status of each channel including Alarms, Calibration, Malfunction, and Reset
- Indicates ALARM, WARN, & MALFunction Alarms
- Longer product life

### Description

The Model DT210 is an eight-channel Readout/Relay Module designed to be used with up to eight remotely located General Monitors H<sub>2</sub>S Smart Sensors. The front panel contains a digital display that indicates 0-20 ppm (parts per million), 0-50 ppm, or 0-99 ppm of the gas being monitored by the Intelligent Sensors.

Each of the eight H<sub>2</sub>S Smart Sensors is also provided with open collector outputs from the DT210 for the ALARM, WARN, and MALFunction conditions. These open collector outputs are referenced to DC return and will sink a maximum of 100mA when active. The open collector outputs are capable of handling external circuitry within a voltage range of 3 to 50 VDC.

Recommended uses for the open collector outputs include external relay circuit when contact closures are desired for each Smart Sensor; external logic interface (TTL, CMOS, HTL, etc.) to a central computer or control room, and external test circuitry.

The Model DT210 can be supplied with a special voting option which must be specified when ordering. A system supplied with this option will require that two channels reach the alarm setpoint before the alarm relay will actuate. All other functions remain the same.

### Applications

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



# MODEL DT210


## System Specifications

<b>Input Current:</b>	0-20mA from S4000TH
<b>Display Range:</b>	0-99 ppm, flashing 99 for over-range indication
<b>Accuracy:</b>	± 2ppm or 10% of the applied gas, whichever is greater
<b>Front Panel Switches:</b>	Channel select, Reset
<b>Alarm Disable:</b>	9 position rotary switch
<b>Alarm Setting:</b>	16 position rotary switch
<b>Warning Setting:</b>	16 position rotary switch
<b>Alarm &amp; Warn LED test:</b>	Incorporated with Reset switch (hold over one second)
<b>Voting:</b>	Jumper selectable - option - one or two channels ALARM only
<b>Energized/De-Energized Relay Options:</b>	ALARM and WARN set by DIP switch
<b>Latching/Non-Latching Relay Options:</b>	ALARM and WARN set by DIP switch
<b>Channel Enable:</b>	Set by DIP switch for each channel
<b>Reset:</b>	One momentary push button switch
<b>Remote Reset:</b>	Yes
<b>Electrical Classification:</b>	General purpose, non-hazardous areas
<b>Warranty:</b>	Two years
<b>Approvals:</b>	CSA, FM

## Environmental Specifications

<b>Operating Temperature Range:</b>	32°F to 140°F (0°C to 60°C)
<b>Storage Temperature Range:</b>	-28°F to 130°F (-33°C to 54°C)
<b>Operating Humidity Range:</b>	10-95% non-condensing

## Electrical Specifications

<b>Input Power:</b>	22-30 VDC 8 watts DT210 plus 7 watts for each S4000TH
<b>Channel Input Resistance:</b>	125 ohms maximum
<b>Output Power:</b>	24 VDC nominal at 0.25 amp to each S4000TH
<b>Status Indicators:</b>	RESET,  , 8 Discrete indicators for ALARM, WARN, MALFunction, CALIBrate, PEAK Channel
<b>Relay Ratings:</b>	4A @ 250 VAC / 30V RMS/42.4 peak, 3A @ 30 VDC, resistive max. A1, A2 - DPDT Fault-SPDT
<b>Cable Requirements:</b>	4 wire shielded cable. Max. allowable distance between sensor and DT210 with one way resistance of 4 ohms (total 8 ohms) @24 VDC nominal: 14 AWG-1500 ft. (700m)

## Mechanical Specifications

<b>Dimensions:</b>	2.1" w x 6.9" h x 11.5" d (53mm x 175mm x 294mm)
<b>Weight:</b>	Approx. 3.8 lb. (1.8kg)
<b>Mounting Configurations:</b>	Rack, Panel, Wall, & Explosion-proof Enclosures
<b>Standard Configuration:</b>	DT210-1-1-2-8 Latch alarm, non-latch warn, de-energized, 99 ppm, voting off, 8 active channels

Specifications subject to change without notice.

Represented by:

## General Monitors Worldwide



[www.generalmonitors.com](http://www.generalmonitors.com)

### Lake Forest, CA

26776 Simpatica Circle  
Lake Forest, California, 92630  
Tel: +1-949-581-4464  
Fax: +1-949-581-1151  
email: [info@generalmonitors.com](mailto:info@generalmonitors.com)

### Houston, TX

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

### Ireland

Ballybrit Business Park  
Galway  
Republic of Ireland  
Tel: +353-91-751175  
Fax: +353-91-751317  
email: [info@gmil.ie](mailto:info@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](mailto:genmon@gmpacifica.com.sg)

### United Arab Emirates

P.O. Box 61209  
Jebel Ali  
Dubai  
United Arab Emirates  
Tel: +971-4-8143814  
Fax: +971-4-8857587  
email: [gmme@generalmonitors.ae](mailto:gmme@generalmonitors.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](mailto:info@generalmonitors.co.uk)