

# TRANSMAX II Gas Monitor

Toxic / O<sub>2</sub> / Combustible Gas Detection

- ◆ Low cost single point monitor for toxic and LEL or VOC levels
- ◆ Single or dual channel operation
- ◆ NEMA 4X case and coated electronics enhance reliability
- ◆ Graphic display shows values, units, trend graph
- ◆ Non-intrusive one-person prompted calibration
- ◆ Power-up and post-cal delay eliminates false alarms
- ◆ Backlit display for better visibility in low light
- ◆ Options for 3x 5A alarm contacts, isolated 4-20mA and MODBUS® interface
- ◆ Security settings to lock critical values
- ◆ TRANSMAX /EC for loop-powered gas detection

The TRANSMAX II Gas Monitor delivers the latest in gas detection technology, reliability and ease of use for non-explosive gas detection applications.

Dual channel capability allows the TRANSMAX II to monitor one or two low cost, disposable Delrin® sensors that can be easily replaced by the user. The "ECHEM" channel supports any of the 20+ GDS Corp toxic sensors, and the "BRIDGE" channel accepts inputs from GDS Corp SmartIR infrared LEL and CO<sub>2</sub> sensors as well as the Photoionization Detector (PID) for monitoring Volatile Organic Compounds (VOCs).

The highly visible backlit display shows calibrated engineering values, bargraph data, 30-minute trend and setup information. An internal real-time clock time-stamps calibration and alarm events for later review. Front panel LEDs continuously indicate alarms.

In addition to dual 4-20mA current loop outputs, an RS-485 two-wire MODBUS® interface and three optional 5A relays are available to communicate with controllers or local alarm indicators.

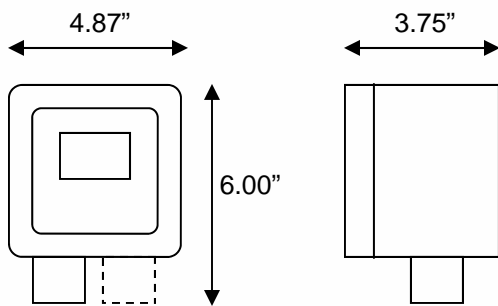
Operator interface is via a menu-driven magnetic keypad, allowing complete setup and calibration without hazardous area declassification.

The TRANSMAX II maintains a record of sensor calibration data that provides an estimate of sensor life remaining. During each post-calibration purge delay, the TRANSMAX II can be programmed to transmit this data on the 4-20mA output. Controllers such as the C1 *Protector* can display and communicate this data to a distributed control system or HMI such as the *Protector*HMI Data Visualization & Logging Software.



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GDS CORP



- Operating Voltage** 10-30VDC at < 3 watts with relay board.
- Display** Backlit 64 x 128 pixel LCD with 30-minute trend, bargraph and eunits.
- Inputs** EC channel: Accepts signals from GDS Corp toxic / O<sub>2</sub> sensors  
 mA / Bridge channel: Adjustable excitation voltage for SmartIR, PID and catalytic bead. Can be converted to 4-20mA input for use with GDS-49 or other standard 4-20mA source.
- Outputs** Standard dual 3-wire 4-20mA current source. Max loop R is 750 ohms with nominal 24VDC power supply  
 Optional dual 1500CMV isolated 4-20mA current source. Max loop R is 650 ohms with nominal 24VDC.  
 Optional three Form C Relays 5A @ 30VDC / 240VAC  
 Optional RS-485 2-wire MODBUS®
- Temp Range** -20°C to +50°C operating
- Housing** Polycarbonate housing with transparent cover. Stainless steel screws. Rated IP66/IP67
- Dimensions** Width 4.87" (124 mm), Height 6" (152 mm), Depth 3.75" (95 mm)  
 Shipping weight 3.5 pounds (1.6 kg)
- Warranty** 2 years on electronics and one year on sensors from date of purchase



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## TRANSMAX II Order Guide

TM II A - B - C / D - E - F / G - H

"A" - EC Channel Sensor Head Type <sup>1</sup>

- 1 Local Delrin Sensor Head (Disposable sensor)
- 2 Local Delrin Sensor Head w/ Splash Guard (Disposable Sensor)

"B" - EC Channel Sensor

- |                                   |                        |
|-----------------------------------|------------------------|
| 10 Oxygen                         | 21 Ozone               |
| 11 Carbon Monoxide                | 22 Ethylene Oxide      |
| 12 Chlorine <sup>6</sup>          | 23 Arsine              |
| 13 Chlorine Dioxide <sup>6</sup>  | 24 Silane              |
| 14 Hydrogen                       | 25 Fluorine            |
| 15 Hydrogen Sulfide               | 26 Phosgene            |
| 16 Hydrogen Cyanide               | 27 Hydrazine           |
| 17 Hydrogen Chloride <sup>6</sup> | 28 Nitric Oxide        |
| 18 Hydrogen Fluoride <sup>6</sup> | 29 Nitrogen Dioxide    |
| 19 Sulfur Dioxide                 | 30 Mercaptan TBM       |
| 20 Ammonia NH <sub>3</sub>        | 31 Tetrahydrothiophene |

"C" - EC Measurement Range <sup>2</sup>

- |          |         |                   |
|----------|---------|-------------------|
| 1 0-1.00 | 4 0-25  | 7 0-500           |
| 2 0-5.00 | 5 0-50  | 8 0-1000          |
| 3 0-10.0 | 6 0-100 | 9 Contact factory |

"D" - mA / Bridge Channel Sensor Head Type

- 1 Local Delrin Sensor Head (Disposable sensor)
- 2 Local Delrin Sensor Head w/ Splash Guard (Disposable Sensor)
- 5 Remote Delrin Sensor Head (Disposable sensor)
- 6 Local Delrin Sensor Head w/ Splash Guard (Disposable Sensor)

"E" - mA / Bridge Channel Sensor

- |  |                                  |
|--|----------------------------------|
| 50 Smart IR 0-100% LEL (Methane)             | 70 Catalytic Bead for LEL        |
| 51 Smart IR 0-100% LEL (Propane)             | 80 MOS H <sub>2</sub> S 0-50 ppm |
| 52 Smart IR 0-100% Volume (CH <sub>4</sub> ) | 90 4-20mA Input                  |
| 53 Smart IR 0-5% Volume CO <sub>2</sub>      |                                  |
| 60 Photoionization Detector (0-2000ppm)      |                                  |
| 61 Photoionization Detector (0-20ppm)        |                                  |

"F" - mA / Bridge Channel Measurement Range <sup>5</sup>

- |          |         |                   |
|----------|---------|-------------------|
| 1 0-1.00 | 4 0-25  | 7 0-500           |
| 2 0-5.00 | 5 0-50  | 8 0-1000          |
| 3 0-10.0 | 6 0-100 | 9 Contact factory |

"G" - Options

- 1 10-0234 3 Alarm Relays & RS-485 MODBUS® slave port
- 2 10-0250 Dual Isolated 4-20mA Output

"H" - Pre-Drilled Conduit Mounting Option

- 0 No-predrilled conduit entry
- 1 Pre-drilled entry in TOP of enclosure
- 2 Pre-drilled entry in LEFT side of enclosure
- 3 Pre-drilled entry in RIGHT side of enclosure
- 4 Other; contact factory

**Note 1:** DELRIN sensor installations do not utilize Smart Sensor interface  
**Note 2:** Standard ranges are shown; contact factory for additional ranges.

Represented by: