

# TRANSMAX EC Gas Monitor

## Loop-Powered Gas Monitor for Toxic Applications

- \* High quality gas detection for general purpose areas
- \* Non-polarized loop powered interface eliminates wiring errors
- \* Graphic display shows values, units, trend graph, alarm levels
- \* Three fl Programmable Alarm Levels
- \* Real time clock tags alarm and calibration events
- \* Supports both local and remote sensors for easy installation
- \* Non-intrusive, prompted calibration with programmable cal gas
- \* Power-up and post-calibration delays eliminate false alarms
- \* Security settings to lock critical parameters
- \* Fault supervision circuitry detects failed sensor & transmits warning
- \* For combustible applications, see the TRANSMAX II gas monitor
- \* Manufactured in USA



The TRANSMAX EC single channel gas monitor for toxic or oxygen deficiency applications delivers the latest in loop-powered gas detection technology, reliability and ease of use.

### Wide Variety of Available Sensors

The TRANSMAX EC supports all GDS Corp toxic sensors, including oxygen, hydrogen sulfide and more (see chart on back). Disposable DELRIN sensor heads with integrated sensors make maintenance easy. Fault detection circuitry constantly monitors sensor inputs for missing or faulty sensors. The TRANSMAX EC maintains a record of sensor calibration data and calculates and displays an estimate of sensor life remaining at the conclusion of each calibration cycle.

### Advanced User Interface

The highly visible graphic LCD display shows the latest reading in large (0.6") digits, engineering units and programmable tag name. Flashing LEDs indicate

Hydrogen Sulfide  
Oxygen Deficiency  
Carbon Monoxide  
Hydrogen Fluoride  
Ammonia  
Chlorine

... And More

Over 20 different sensor options for General Purpose applications

alarm status, a unique feature among loop-powered devices. Activating the NEXT key switches to a trend screen that graphically displays alarm levels and a record of the most recent 30 minute trend. A built-in, prompted calibration procedure simplifies

An internal real-time clock and event log time-stamp up to 300 alarm events for later review. Taking advantage of the high-resolution graphic display, an easy-to-use menu-driven operator interface using magnetic keys eliminates all analog potentiometers and allows complete setup and calibration without opening the enclosure.

### Enhanced Security

Three operational levels of security allow the GASMAX EC to be fully fi configurable, partially restricted or completely restricted by way of user ID and access code.

### Designed for General Purpose Areas

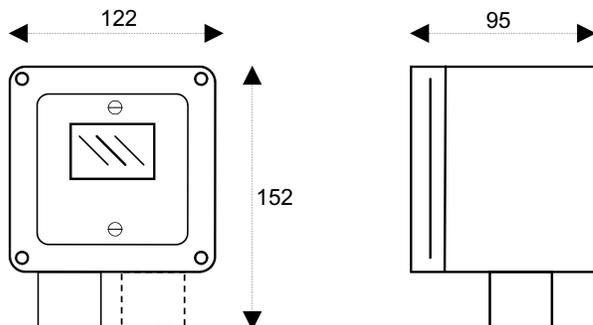
The TRANSMAX EC is designed specifically highly reliable gas detection is required. The enclosure is rated NEMA 4X and IP66/67 for outdoor use. A splash guard is available for the sensor if directed water spray is expected.

**GDS**  
**Corp**  
Gas and Flame Detection

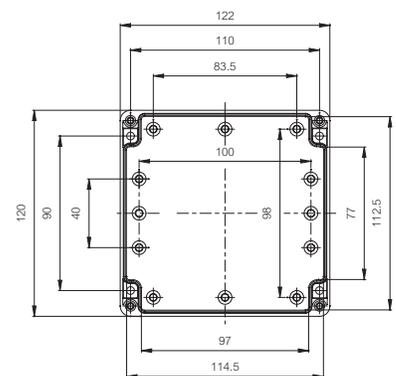
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TRANSMAX EC SPECIFICATIONS	
<b>Power Input</b>	10-30VDC at less than 0.75 watts
<b>Display</b>	64 x 128 pixel LCD with 30-minute trend, bargraph and engineering units display.
<b>Input</b>	Accepts microamp-level signals from local or remote GDS Corp toxic or oxygen deficiency sensors
<b>Calibration Range</b>	Zero = +/- 15% of range with 0.1% resolution Span = Gain adjustment of 0.5 to 2.0 with 0.1% resolution
<b>Accuracy</b>	+/- 5% of full scale range (typical)
<b>Standard Output</b>	Standard 2-wire 4-20mA current sink output. Max loop R is 600 ohms with nominal 24VDC power supply.
<b>Temp</b>	-25°C to +60°C (see sensor limitations)
<b>Housing</b>	Polycarbonate housing with transparent cover. Stainless steel screws. Rated IP66/IP67
<b>Dimensions</b>	Width 4.87" (124mm), Height 6" (152mm), Depth 3.75" (95mm) Shipping weight 3.5 pounds (1.6 kg)
<b>Warranty</b>	Two years on electronics and one year on sensors from date of purchase

SENSOR TYPES					
10	Oxygen (0-25%)	-30 to +55C	21	Ozone (0-1) <sup>6</sup>	-20 to +40C
11	Carbon Monoxide (0-300)	-30 to +50C	22	Ethylene Oxide (0-20)	-20 to +50C
12	Chlorine (0-5) <sup>6</sup>	-20 to +50C	23	Arsine (0-1)	-20 to +40C
13	Chlorine Dioxide (0-1) <sup>6</sup>	-20 to +40C	24	Silane (0-50)	-20 to +40C
14	Hydrogen (0-2000)	-20 to +50C	25	Fluorine (0-1) <sup>6</sup>	-10 to +40C
15	Hydrogen Sulfide (0-100)	-30 to +50C	26	Phosgene (0-1) <sup>6</sup>	-20 to +40C
16	Hydrogen Cyanide (0-50)	-20 to +50C	27	Hydrazine (0-1)	-10 to +40C
17	Hydrogen Chloride (0-30) <sup>6</sup>	-20 to +50C	28	Nitric Oxide (0-50)	-20 to +50C
18	Hydrogen Fluoride (0-10) <sup>6</sup>	-20 to +50C	29	Nitrogen Dioxide (0-100)	-20 to +50C
19	Sulfur Dioxide (0-25)	-30 to +50C	30	Mercaptan TBM (0-15)	-10 to +40C
20	Ammonia (0-100) <sup>6</sup>	-20 to +40C	31	Tetrahydrothiophene (0-100)	-10 to +40C
			32	Diborane (0-5)	-20 to +40C



TRANSMAX EC Order Guide	
TMEC A - B - C	
<b>"A"</b>	SENSOR HEAD <sup>1,6</sup> 1 = Local Delrin Sensor Head with Integrated Sensor 2 = Local Delrin Head with Integrated Sensor & Splash Guard 3 = Local Stainless Steel sensor head 4 = Local Stainless Steel sensor head with splash guard 6 = Local Stainless Steel sensor head with splash guard for reactive gases
<b>"B"</b>	SENSOR TYPE (see chart)
<b>"C"</b>	DETECTION RANGE <sup>2</sup> 1 = 0 - 1 2 = 0 - 5 3 = 0 - 10 4 = 0 - 25 5 = 0 - 50 6 = 0 - 100 7 = 0 - 500 8 = 0 - 1000 Custom RXXXX (0-9999)



NOTES
Note 1: DELRIN sensor installations do not utilize Smart Sensor interface
Note 2: Standard ranges shown; contact factory for additional ranges
Note 6: Certain reactive gases require type 1, 2 or type 6 sensor head