

TRANSMAX II Gas Monitor

Single / Dual Channel Gas Monitor for General Purpose Locations

- * High quality gas detection for general purpose areas
- * Monitor both toxic sensors and LEL with one detector
- * Graphic display shows values, units, trend graph, alarm levels
- * Non-intrusive, prompted calibration with programmable cal gas
- * Power-up and post-calibration delays eliminate false alarms
- * Backlit display for better visibility in low light conditions
- * Options for 3x 5A alarm contacts, isolated 4-20mA and MODBUS®
- * Security settings to lock critical parameters
- * Fault supervision circuitry detects failed sensor & transmits warning
- * Setup requires only simple magnetic wand
- * For toxic-only applications, see the TRANSMAX EC gas monitor



The TRANSMAX II gas monitor delivers the latest in toxic & combustible gas detection technology, reliability and ease of use.

Widest Variety of Available Sensors

Built-in dual channel electronics allow the TRANSMAX II to support any GDS Corp sensor or any combination of one toxic and one combustible (bridge-type) sensor. 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 backlit display and high intensity alarm LEDs constantly show alarm status, calibrated engineering values and programmable tag name; a trend screen shows alarm levels and the most recent 30 minute data values. An internal real-time clock and event log time-stamp

Hydrogen Sulfide
Oxygen Deficiency
Carbon Monoxide
Carbon Dioxide
Hydrogen Fluoride
Ammonia
Chlorine
Benzene

... And More

Over 30 different sensor options for General Purpose applications

calibration and alarm events for later review. A menu-driven operator interface using magnetic keys eliminates all analog potentiometers and allows complete setup and calibration without hazardous area declassification.

Flexible Output Options

In addition to standard dual 4-20mA current loop outputs, an optional dual isolated 4-20mA output board or an RS-485 two-wire MODBUS® interface with three 5A SPDT relays are available to communicate with controllers or drive local alarm indicators. When used with the C1 Protector controller's MODBUS master port, multiple TRANSMAX II monitors can be daisy-chained up to 500m to minimize wiring.

Enhanced Security

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

Designed for General Purpose Areas

The TRANSMAX II is designed specifically for general purpose areas where 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

2513 Hwy 646

Santa Fe, Texas 77510

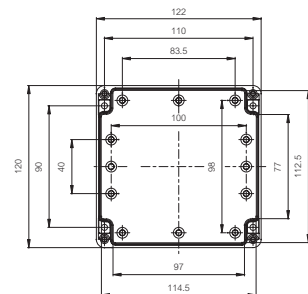
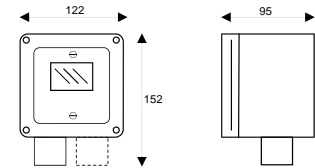
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TRANSMAX II SPECIFICATIONS	
Power Input	10-30VDC at < 3 watts with relay board. Additional power (4W peak) required for Arctic Monitor option.
Display	Backlit 64 x 128 pixel LCD with 30-minute trend, bargraph and eunits.
Electrochemical Sensor Input	Channel 1 accepts microamp-level signals from GDS Corp toxic & oxygen deficiency sensors
Bridge Type Sensor Input	Channel 2 provides 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.
Standard Output	Standard dual 3-wire 4-20mA current source. Max loop R is 750 ohms with nominal 24VDC power supply
Optional Output #1	Dual 1500CMV isolated 4-20mA current source. Max loop R is 650 ohms with nominal 24VDC.
Optional Output #2	Three Form C Relays 5A @ 30VDC / 240VAC plus RS-485 2-wire MODBUS® slave interface
Temp	-25°C to +60°C (see sensor limitations)
Housing	Polycarbonate housing with transparent cover. Stainless steel screws. Rated IP66/IP67
Dimensions	Width 4.87" (124mm), Height 6" (152mm), Depth 3.75" (95mm) Shipping weight 3.5 pounds (1.6 kg)
Warranty	2 years from date of purchase on electronics and one year on sensors.

TRANSMAX II Order Guide	
GM II A - B - C / D - E - F / G - H	
“A” & “D”	SENSOR HEAD 1 = Delrin Sensor Head with Integrated Sensor 2 = Delrin Sensor Head with Integrated Sensor & Splash Guard
“B” & “E”	SENSOR TYPE (see chart) B use only types 10 - 31 E use only types 50 - 99
“C” & “F”	DETECTION RANGE ¹ 1 = 0 - 1 5 = 0 - 50 2 = 0 - 5 6 = 0 - 100 3 = 0 - 10 7 = 0 - 500 4 = 0 - 25 8 = 0 - 1000 9 = Custom (contact factory)
“G”	OUTPUT OPTIONS 1 = Alarm Relays & MODBUS 2 = Dual Isolated 4-20mA Outputs
“H”	TEMPERATURE RANGE ¹⁰ 0 = Std range -40°C to +55°C

SENSOR TYPES					
10	Oxygen (0-25)	-30 to +55C	27	Hydrazine (0-1)	-10 to +40C
11	Carbon Monoxide (0-300)	-30 to +50C	28	Nitric Oxide (0-50)	-20 to +50C
12	Chlorine (0-5)	-20 to +50C	29	Nitrogen Dioxide (0-100)	-20 to +50C
13	Chlorine Dioxide (0-1)	-20 to +40C	30	Mercaptan TBM (0-15)	-10 to +40C
14	Hydrogen (0-2000)	-20 to +50C	31	Tetrahydrothiophene (0-100)	-10 to +40C
15	Hydrogen Sulfide (0-100)	-30 to +50C			
16	Hydrogen Cyanide (0-50)	-20 to +50C	50	SmartIR 0-100% LEL (Methane)	-20 to +50C
17	Hydrogen Chloride (0-30)	-20 to +50C	51	SmartIR 0-100% LEL (Propane)	-20 to +50C
18	Hydrogen Fluoride (0-10)	-20 to +50C	53	SmartIR 0-100% v/v (Methane)	-20 to +50C
19	Sulfur Dioxide (0-25)	-30 to +50C	53	SmartIR 0-5% v/v CO2	-20 to +50C
20	Ammonia (0-100)	-20 to +40C			
21	Ozone (0-1)	-20 to +40C	61	PID Low (0-50 ppm ISOB)	-40 to +60C
22	Ethylene Oxide (0-20)	-20 to +50C	62	PID High (0-300 ppm ISOB)	-40 to +60C
23	Arsine (0-1)	-20 to +40C	70	Catalytic Bead 0-100% LEL	-40 to +65C
24	Silane (0-50)	-20 to +40C	90	4-20mA input	-40 to +60C
25	Fluorine (0-1)	-10 to +40C	95	GDS-IR 0-100% LEL (Methane)	-40 to +65C
26	Phosgene (0-1)	-20 to +40C	96	GDS-IR (other)	-40 to +65C



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Toxic & Combustible Gas Detection • Controllers • Process Monitors • Calibration Supplies

NOTES
Note 1: Standard ranges shown; contact factory for additional ranges