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

* Manufactured in USA

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

... And More

Over 30 different sensor options for General Purpose applications

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 circuity 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

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 fi configurable, partially restricted or completely restricted by way of user ID and access code.

Designed for General Purpose Areas

The TRANSMAX II is designed specifi
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.
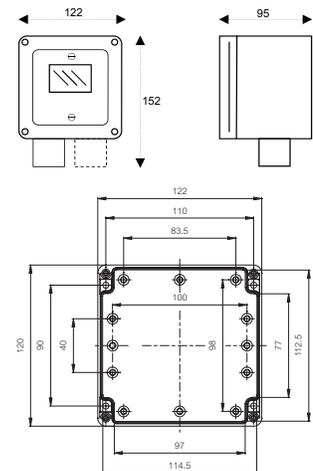
Toxic & Combustible Gas Detection • Controllers • Process Monitors • Calibration Supplies

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 +50°C (see sensor limitations)
Housing	Polycarbonate housing with transparent cover. Stainless steel screws. Enclosure 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.

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) [6]	-20 to +50C	**29**	Nitrogen Dioxide (0-100)	-20 to +50C
13	Chlorine Dioxide (0-1) [6]	-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	**32**	Diborane (0-5)	-20 to +40C
16	Hydrogen Cyanide (0-50)	-20 to +50C	**50**	SmartIR 0-100% LEL (Methane)	-20 to +50C
17	Hydrogen Chloride (0-30) [6]	-20 to +50C	**51**	SmartIR 0-100% LEL (Propane)	-20 to +50C
18	Hydrogen Fluoride (0-10) [6]	-20 to +50C	**53**	SmartIR 0-100% v/v (Methane)	-20 to +50C
19	Sulfur Dioxide (0-25)	-30 to +50C	**53**	SmartIR Carbon Dioxide	-20 to +50C
20	Ammonia (0-100) [6]	-20 to +40C	**61**	PID Low (0-50 ppm ISOB)	-40 to +50C
21	Ozone (0-1) [6]	-20 to +40C	**62**	PID High (0-300 ppm ISOB)	-40 to +50C
22	Ethylene Oxide (0-20)	-20 to +50C	**63**	PID Low (0-50 ppm) 9.6ev	-40 to +50C
23	Arsine (0-1)	-20 to +40C			
24	Silane (0-50)	-20 to +40C	**70**	Catalytic Bead 0-100% LEL	-40 to +50C
25	Fluorine (0-1) [6]	-10 to +40C			
26	Phosgene (0-1) [6]	-20 to +40C	**90**	4-20mA input	-40 to +50C

GDS Corp
Gas and Flame Detection

TRANSMAX II Order Guide

GM II A - B - C / D - E - F / G - 0

"A" & "D"	SENSOR HEAD [1,6] 0 = None 1 = Delrin Sensor Head 2 = Delrin Sensor Head w/ Splash Guard 3 = Local Stainless Steel head 4 = Local Stainless Steel head with splash guard 6 = Local Stainless Steel head with splash guard for reactive gases 7 = Remote Stainless Steel head 8 = Remote Stainless Steel sensor head with splash guard 10 = Remote Stainless Steel head with splash guard for reactive gases
"B" & "E"	SENSOR TYPE (see chart) B use only types 10 - 31 E use only types 50 - 99
"C" & "F"	DETECTION RANGE [2] 1 = 0 - 1 5 = 0 - 50 2 = 0 - 5 6 = 0 - 100 3 = 0 - 10 7 = 0 - 500 4 = 0 - 25 8 = 0 - 1000 Custom RXXXX (0-9999)
"G"	OUTPUT OPTIONS 1 = Alarm Relays & MODBUS 2 = Dual Isolated 4-20mA Out
"H"	TEMPERATURE RANGE 0 = Standard Temperature Range

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, 4 or 10 sensor head

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