

TGT 1000D

Toxic Gas Transmitter with Display

Protect your Life and Property



- * Very Low Maintenance
- * High Sensitivity Sensor
- * 4 digit LED display
- * Microcontroller SMD Components
- * Weather proof Dust Tight IP 66 enclosure
- * Aesthetical Looks
- * 2 Wire 4-20 mA output
- * Loop Powered Wide optg Voltage
- * compatible - DCS, PLC, PRISM Monitors

Gas Detection - The most reliable way



TGT 1000D Toxic Gas Transmitter with Display

TGT 1000Ds a series of direct use Sensor + Transmitter combination units housed in weather-proof (IP65) enclosures. Alternately, TGT is also available in FLP version suitable for hazardous areas (IIA/IIB).

Transmitters are designed for standard two-wire operation where the output is supplied via the same wire pair as the power supply. The external circuit loop is connected to the transmitter via a screw terminal Connector.

The Units are supplied pre-calibrated for the specified range, and the sensitivity of the device should not drift by more than 2% of full signal per month. Some sensors have cross interference effect of other gases. It is important to specify air composition to help choose appropriate sensor



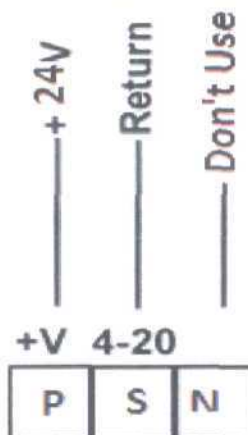
Specifications

Operating Voltage	15-30VDC
Operating Temperature	0 - 50 deg C
Power consumption	< 2 W
Cable entry	Pg 11 gland - 1 no. Cable diameter : 7 - 9 mm
Indications	3 digit LED display
Gas	see table
Gas Level	see table
Enclosure	ABS, IP65 with transparent lid
Colour of box	Light Gray similar to RAL 7035
Size (H x L x D)mm	80 x 120 x 85
Weight	< 1 Kg
Mounting	Wall
Resolution	0.1%
Output linearity	Linear over full range
Calibration	Via Zero & Span pots
Expepected Optg life	2 yrs.

Connections to Controller

1. Use Positive and Signal terminals of the controller
2. Controleler must have a loop shunt resistor.
3. Max. Loop resistance with 24 V supply is 500 ohms incl cable resistance.
4. Do not connect 'N' terminal. This is for service personnel only.

Transmitter

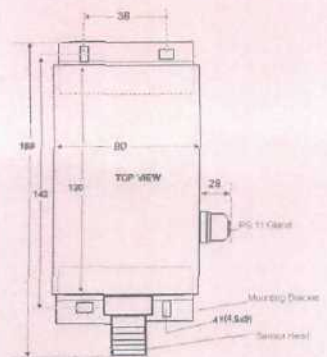


Gases	Range(ppm)
CO	2000,5000,10000
H2S	20,50,100
SO2	20,2000
NO2	20
NO	250,5000
Cl2	20
ETO	100
PH3	10
HCN	100
O2	25%v/v

Don't find your gas or range in the list. Contact us. We are continuously updating teh range.

Label Details

Mounting Dimensions



Wall Mount

Transmitters can be operated over a wide power supply range (Nominal 24 V DC). Total loop resistance in the external circuit depends upon the operating voltage. Maximum Loop Resistance includes the measuring resistor at the remote receivers and any series meters for calibration etc. The sensors require a few seconds to settle after start-up. Some models (analog type) are provided with Potentiometers for routine span and zero adjustment. Except requiring periodic recalibration, transmitters are maintenance-free, and should give faultless service throughout the working life of the sensor.

4-20 mA Loop

Cable Routing: Separate cables are required for each monitor.

Power Supply: Power is supplied by the controller.

Recommend: PRISM recommends regulating the power supply if using any other controller.

The circuit uses SMD and microcontroller based design to provide excellent linearity, accuracy, stability etc. The circuit employed imposes no constraints on the sensor, so the performance characteristics of the sensor are unaltered by the addition of the circuit board. The TGT is available with many other optional enhancements like 4 digit LCD display, multi-parameter back lit LCD display, HART protocol output, Modbus protocol, PC calibration and programming facility etc.

Specifications subject to change without notice



PRISM

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