

# S-Guard Tx

## Toxic and O<sub>2</sub> Gas Detector



The GasTech Australia GTD-2000Tx is part of the S-Guard™ smart transmitter series and includes instruments for both toxic gas detection and oxygen concentration monitoring. The sensing element technology provides long operational life, low cross sensitivity and robust environmental performance. The instruments transmit industry standard 4 - 20 mA analog output, providing gas concentration, fault and calibration signals. Modbus digital communications transmitted via RS485 and HART communication via the 4-20mA output are also available as an option.

### Features

- \* Flameproof cast Aluminium enclosure.
- \* IP66 Ingress Protection rating.
- \* Smart microprocessor based architecture.
- \* Continuous monitoring of toxic gases and oxygen in explosive gas hazardous area applications.
- \* Industry standard 4 - 20mA output signal.
- \* Inbuilt self-diagnostics continually monitor detector status giving increased operational confidence.
- \* Low cross-sensitivity sensor technology gives excellent target gas selectivity.
- \* Performance optimised for detection below TLV.
- \* Clear back-lit LCD for display of measurement and status information in all visibility conditions.
- \* User-configurable to provide flexible integration into end applications.
- \* Auto calibration functionality.
- \* 'No-Access' calibration and configuration using magnet stylus.
- \* High reliability operation giving low cost of ownership.

### Applications

- Refineries
- Gas turbines
- Drilling and production platforms
- Chemical plants
- Fuel loading facilities
- Compressor stations
- Oil well logging
- Wastewater treatment facilities
- LNG/LPG processing and storage facilities
- Transportation facilities

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## Toxic and O<sub>2</sub> Gas Detector

<b>Model</b>	S-Guard CAT GTD-2000 Tx
<b>Measuring gas</b>	Refer to Gas Table
<b>Measuring type</b>	Natural Diffusion
<b>Sensor type</b>	Electro-Chemical or Galvanic Cell
<b>Measuring range</b>	Refer to Gas Table
<b>Response time</b>	45 seconds to T90
<b>Accuracy</b>	±3% / Full scale
<b>Parameter controls</b>	Non intrusive control with Magnet bar (calibration, maintenance, alarm setting)
<b>Measuring value display</b>	LCD display (Built-in Back light 2-Line, 16 characters)
<b>Analog Output signal</b>	
<b>Measured gas concentration</b>	4-20 mA DC
<b>Maintenance signal</b>	3 mA DC
<b>Calibration signal</b>	3 mA DC
<b>Fault signal</b>	2 mA DC
<b>Digital output</b>	MODBUS RTU. Half Duplex RS485 (optional) HART Interface (optional)
<b>Cable / Distance</b>	Power + signal cable: 3 wire (above CVVS 1.5sq) / 500m max.
<b>RS-485 data communication cable</b>	Single twisted pair (UL2919 RS-485) / 1,000m max.
<b>Conduit pipe</b>	1/2" & 3/4" PF, NPT (3/4" PF standard)
<b>Mounting type</b>	2" Pole mount, Wall mount, Duct mount
<b>Operating temperature</b>	-20°C ~ +60°C
<b>Operating humidity</b>	5 to 99%.RH (non-condensing)
<b>Operating voltage range</b>	18 to 31V DC (24V DC normal).
<b>Maximum operating current</b>	300mA
<b>Dimensions</b>	136 x 166 x 110 (W X H X D)mm
<b>Weight</b>	1.7kg
<b>Approval</b>	Flameproof structure (Ex d IIC T6), ATEX, IECEx GTL-100 (Explosion-proof Warning Light) Rain Cover
<b>Ordering information</b>	67-9091-H2S S-Guard H2S Transmitter and JBox 0-50ppm IECex 67-9091-xxx (xxx) represents the gas type eg HCN, CO etc

Distributed By

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Specifications subject to change without notice (June 2011)