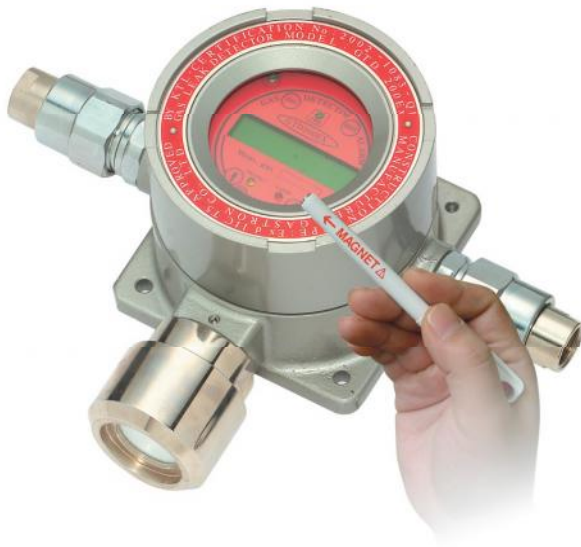


SMART TYPE OXYGEN & TOXIC GAS DETECTOR ..... GTD-200Tx Series



- Smart-Type Gas Detector, having a Built-In Micro Processor
- Continuous Detection of Oxygen & Toxic Gas and Vapours
- Excellent Measurement Sensitivity and Stability
- Integral alarm and fault relays
- Calibration, Maintenance & Normal Measurement Modes
- Display Gas Name. Range. Units & Operation mode
- RS-485 Output, MODBUS RTU protocol
- 2-Line/16 Characters LCD display that Indicates the Density of Leaked Gas in Field, having Built-in Black Light
- Magnetic Non-intrusive Interface
- Magnetic Interface to configure Alarm
- 3-wires connection
- 4-20mA Signal output
- Calibration by One Person and Easy Maintenance

**GENERAL SPECIFICATION**

- GTD-200Tx series is intelligent-type oxygen & toxic gas detector, applying the technology of micro processor. Likewise, it can detect part per billion (PPB), part per million (PPM) and volume (%), applying electro-chemical sensor having superior selectivity.
- It indicates the density of leaked gas in field, and gives an alarm, and transmits the signal of fault relays, applying the technology of micro processor.
- It is a product that minimizes the influence from the exterior environment (temperature, humidity, pressure, electrical noise, etc.); at the same, it was manufactured to guarantee long life, high sensitivity, linearity, reproducibility, etc. on a long-term basis.
- The serial output uses RS-485 MODBUS RTU Protocol, and a 4-20mA output is also provided, in addition to two SPDT alarm relays.
- The expanded user interface is magnetic, and functional testing, calibration and alarm setting are menu driven. The back-lighted LCD display is used to lead the user through all functions, in addition to normally indicating the value, measuring units, and gas name. Three LEDs are provided for alarm annunciation.

**TOTAL SOLUTION FOR GAS DETECTION SYSTEM**  
 Design, Development, Manufacture, Installation and Servicing for Gas Detection System.

**PRODUCT SPECIFICATION**

<b>Sensor type:</b>	Continuous Diffusion
<b>Function:</b>	Local LCD display type Intelligent set-up function Transmitter type
<b>Service:</b>	Indoor or outdoor locations Including hazardous areas
<b>Measuring range:</b>	PPB, PPM & Vo.I % Refer to Ordering Information(P.50)
<b>Sensor life:</b>	2 to 3 years typical
<b>Accuracy:</b>	± 3% of full scale
<b>Response time:</b>	T90 < 45 sec.
<b>Zero drift:</b>	Less than 3% of full scale per year
<b>Electrical Classification:</b>	Explosion-proof, Ex d IIC T5
<b>Warranty:</b>	One year
<b>Approval:</b>	Korea Occupational Safety Association

**ENVIRONMENTAL SPECIFICATION**

<b>Operating Temperature range:</b>	Electronics -40°C to 70°C Standard sensor -50°C to 80°C
<b>Storage Temperature range:</b>	-40°C to 70°C
<b>Operating Humidity range:</b>	5 to 100% RH
<b>Operating pressure range:</b>	ATM. ± 10%

**MECHANICAL SPECIFICATION**

<b>Weight:</b>	2.5kg
<b>Material(housing):</b>	Cast aluminum
<b>Material(sensor):</b>	SUS 304
<b>Mounting Type:</b>	2" Pipe Mount/surface mount

**ELECTRICAL SPECIFICATION**

<b>Input power:</b>	24V.DC nominal 18 to 27V.DC/230mA max.
<b>Output signal:</b>	4-20mA(600 ohms max. load 0 mA) Malfunction 2mA Setup mode 2mA Calibration 0mA
<b>Alarm signal:</b>	2 x SPDT
<b>Cable Requirements:</b>	3-wire shield cable. Max distance 2000M
<b>Digital communication:</b>	RS-485 MODBUS Stop Bits: 1
<b>Baud Rate:</b>	9600
<b>Parity:</b>	Even
<b>Date Bits:</b>	8

**DIMENSIONS**

