

LOCAL DISPLAY TYPE OXYGEN & TOXIC GAS DETECTOR TS-2000Tx Series



- Continuous Detection of Oxygen & Toxic Gas and Vapours
- Excellent Measurement Sensitivity and Stability
- Electro-Chemical Sensor for Detecting Low-Density Toxic Gas
- Long Life Sensor element
- Built-in LCD Display that Indicates the Density of Leaked Gas in Field
- Loop Power, 2-Wires Connection
- 4-20mA Signal Output
- Calibration by One Person and Easy Maintenance
- Highest Safety Certification



GENERAL SPECIFICATION

- TS-2000Tx series is transmitter-type oxygen & toxic gas detector, having a built-in LCD display that indicates the density. Likewise, it can detect part per billion (PPB), part per million (PPM) and volume (%), applying a electro-chemical sensor, having superior selectivity and for detecting low-density toxic gas.
- Designed to continuously surveil the gas leak, using explosion-proof housing, in a hazardous area.
- A product that minimizes the influence from the exterior environment (temperature, humidity, pressure, electrical noise, etc.); manufactured to guarantee long life, high sensitivity, linearity, reproducibility, etc. on a long-term basis.
- A display for indicating the density of leaked gas in field; a port, which is installed on the outside of the detector, for making easy calibration possible
- Possible to transmit industry standard output signal (4-20mA. DC) to a control center; the realization of long-distance transmission of 2,500m.
- Possible to confirm the output signal of detected density at the even local area; provides one-person calibration and maintenance function.

SYSTEM SPECIFICATION

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

ENVIRONMENTAL SPECIFICATION

Operating Temperature range:	Electronics -40 °C to 70 °C Standard sensor -20 °C to 50 °C
Storage Temperature range:	-20 °C to 50 °C
Operating Humidity range:	5 to 100% RH
Operating pressure range:	ATM. ± 10%

MECHANICAL SPECIFICATION

Weight:	2.5kg
Material(housing):	Cast aluminum
Material(sensor):	Dry cell-SUS 304 Wet cell-PTFE
Mounting Type:	2" Pipe Mount/surface mount

ELECTRICAL SPECIFICATION

Electrical protection:	EMI/RFI by EN 50082-1
Input power:	24V.DC nominal 18 to 31V.DC/ 28mA max.
Output signal:	4-20mA(600 ohms max. load)
Cable Requirements:	2-wire shield cable. Max distance for 2500M
Conduit connection:	1/2" & 3/4" PT & NPT

DIMENSIONS

