

AUTO SAMPLING TYPE OXYGEN & TOXIC GAS DETECTOR TS-4000Tx Series



- **Continuous measuring of Oxygen & Toxic Gases and Vapours by Continuous sampling**
- **Excellent Measurement Sensitivity and Stability**
- **Long Life Sensor element**
- **Built-in LCD Display that Indicates the Density of Leaked Gas in Field**
- **Built-In Subminiature and High-Efficient Micro Pump**
- **3-wires connection**
- **4-20mA Signal output**
- **Calibration by One Person and Easy Maintenance**
- **Highest Safety Certification**



GENERAL SPECIFICATION

- TS-4000Tx series is auto sampling-type oxygen & toxic gas detector, having a built-in high-efficient micro pump. Likewise, it can detect part per billion (PPB), part per million (PPM) and volume (%), applying electro-chemical sensor of high sensitivity, having high selectivity and for detecting low-density toxic gas.
- It was designed to surveil the gas leak in even hazardous area such as low-temperature, high-temperature, high-humidity, high-ground area, etc., which the barrier place to work in maintenance and repair, continuously inhaling gas in those places, using explosion-proof housing.
- It can correctly and rapidly detect the gas through a display that indicate the density of leaked gas in field.
- It is a product that minimizes the influence from the exterior environment (temperature, humidity, pressure, electrical noise, etc.); at the same time, it was manufactured to guarantee long life, high sensitivity, inearity, reproducibility, etc. on a long-term basis.
- It is a 3-wire-type product, no need separate power for operating pump; it makes lower construction expense than 5 or 6 wires. Likewise, it is possible to transmit industry standard output signal (4-20mA. DC) to a control center; at the same time, it realized long-distance transmission of 2,000m.
- It is possible to confirm the detected density at the even local area; at the same time, it provides one-person calibration and maintenance function, using a port on the outside of the detector.

TOTAL SOLUTION FOR GAS DETECTION SYSTEM

Design, Development, Manufacture, Installation and Servicing for Gas Detection System.

SYSTEM SPECIFICATION

Sensor type:	Continuous auto sampling
Function:	Local LCD display type 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 Thermal
Response time:	T90 < 45 sec.
Zero drift:	Less than 3% of full scale per year
Suction flow method	Electrical diaphragm pump
Flow rate	0-2000 ml/min Max.
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 -50 °C to 80 °C
Storage Temperature range:	-40 °C to 70 °C
Operating Humidity range:	5 to 100% RH
Operating pressure range:	ATM. ± 10%

MECHANICAL SPECIFICATION

Weight:	7kg 10kg(Including Enclosure)
Material(housing):	Cast aluminum
Material(Enclosure):	Steel(Glass Window)
Mounting Type:	surface mount

ELECTRICAL SPECIFICATION

Electrical protection:	EMI/RFI by EN 50082-1
Input power:	24V.DC nominal 18 to 31V.DC/ 230mA max.
Output signal:	4-20mA(600 ohms max. load)
Cable Requirements:	3-wire shield cable. Max distance 2000M
Conduit connection:	1/2" & 3/4" PT & NPT

DIMENSIONS

