TOTAL SOLUTION FOR GAS DETECTION SYSTEM

TOTAL SOLUTION FOR GAS DETECTION SYSTEM

TOTAL SOLUTION FOR GAS DETECTION SYSTEM

TS-5100 Series

SMART & NON-EXPLOSION PROOF TYPE



- Rapid detection of gas leakage with high efficient pump inside
- Detection of combustible, oxygen & toxic gas from low to high concentration owing to various detection principle
- Stable quality and proved detection principle for service life
- Excellent selectivity by adapting detection principle only for oxygen & toxic gas
- Superior performance for detecting gas below TLV
- · Gas concentration display by built-in FND
- Digital display of gas concentration with 4 Digit
- 4-20mA DC output signal
- RS-485 Modbus communication Easy configuration of monitoring by Serial data communication
- · 3-wire connection
- · 2 stages Alarm, 1 Trouble display and realy output
- Calibration and maintenance by one person

GENERAL

- TS-5100 series have high efficient diaphragm pump having long service life
- It has excellent selectivity to react only with corresponding gas.
 Therefore, it minimizes malfunctioning due to interfering gas
- Also it shows excellent performance for detecting very low gas concentration (below TLV)
- Detected gas concentration can be checked from digital display.
 Calibration is performed by front calibration VR with checking gas concentration
- It produces 2-alarm and Trouble output (SPST relay contact) to interlock with other devices (gas shut-off valve, beacon and venting FAN) when alarm is occurred.
- It has guaranteed reliability and minimized influences of temperature, pressure, humidity and electrical noise.
- Analog output (4-20mA DC) and RS-485 Modbus (isolated) digital output can be dilivered to controller, DCS & PLC and gas monitoring system
- It is 3 wire type and installation is easier than existing products (5~6 wire type) with low cost
- There are various accessories for each onsite condition (Optional item)





SPECIFICATION

CAMADI MONI EVOLOCIONI DECCE O MUTO CAMADI INICITIZE COMAD. OVOJCENI O TOVIO CAC DETECTOD			
	SMART, NON-EXPLOSION PROOF & AUTO SAMPLING TYPE COMB. OXYGEN & TOXIC GAS DETECTOR		
Model	TS-5100		
Measuring gas	Combustible gas (LNG, LPG, H ₂ , Methane, Buthane & etc)	Toxic gas (O ₂ , CO, CL ₂ , NH ₃ & etc)	
Measuring type	Auto sampling type		
Measuring method	Hot wire semiconductor cell, Catalytic cell, Thermal conductivity cell	semiconductor cell, Electrochemical cell	
Measuring range	0~2000ppm, 0~100% LEL, 0~100% Vol.	Refer to Ordering information (70 page)	
Response time	<15sec / 90% scale	<45sec / 90% scale	
Accuracy	±3% / Full scale		
Parameter control	Front switch (calibration, maintenance, alarm setting)		
Operation mode display	4-LED (Power, 2-stages Alarm, 1-Trouble)		
Measuring value display	FND display (4-digit)		
Alarm signal output	250V 1A / 3-SPST Relay contact (2-Alarm, 1-Trouble)		
Output signal	Analog output: 4-20mA DC		
	Digital output: RS-485 Modbus (option)		
Sampling method	Diaphragm Pump		
Sampling line	OD 1/4"		
Flow rate	0-2000 ml/min max		
Cable/Distance	Power + signal cable : 3 wire (Above CVVS 1.5sq) / 2,500m max.		
	RS-485 data communication cable: 1par (UL2919 RS-485) / 1,000m max.		
Conduit connection	Cable gland (PG-13.5)		
Mounting type	2" Pole mount, Wall mount		
Operating temperature	-20°C ~ +50°C		
Operating humidity	5 ~ 99%.RH (non-condensing)		
Operating power	18 ~ 31V DC (24V DC normal) / 250mA max.		
	AC 110/220V(option)		
Dimensions	100 x 207 x 155 (W X H X D)		
Weight	2.5kg		
Approval	CE. USTC		

DIMENSION (unit : mm)

