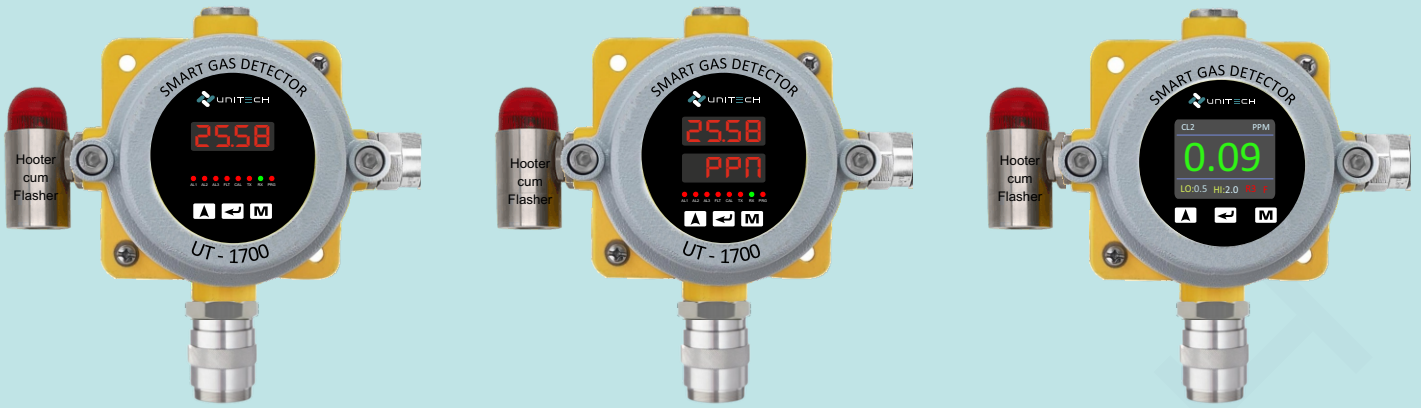


UT- 1700
GAS TRANSMITTER / DETECTORS
FOR OXYGEN / TOXIC / COMBUSTIBLE GASES



- ✦ Highly Accurate and Reliable Output using Electrochemical / Pellistor / NDIR / VOC / PID Sensor
- ✦ Digital Seven Segment LED & Color LCD Touch Screen Display
- ✦ Fast Response in < 10 Second
- ✦ 2 Nos. Independent Set Points with Audio Visual Alarm for Limit Violation

PRODUCT FEATURES

- ✦ Microcontroller based Highly Accurate, Reliable and High Performance based Technology.
- ✦ Fast and Reliable Output by using Electrochemical / Pellister Sensors.
- ✦ Optimized design for detection of smallest leak of Oxygen / Toxic & Combustible Gases.
- ✦ Wide Sensing range to PPM, %V/V, %LEL.
- ✦ Digital seven segment LED & Touch Screen LCD Display for Monitoring of GAS Concentration.
- ✦ 3 level Password Protection for Configuration and Calibration.
- ✦ Isolated 4 - 20 mA Process Value Re-Transmission Output.
- ✦ All Configuration and Calibration from front Keypad or Touch-pad.
- ✦ Modbus RTU Multidrop RS485 / RF-Wireless / Wi-Fi / Bluetooth Communication Port Available.
- ✦ Process Parameter High and Low LED Status Indication with Audible Buzzer / Flasher for Limit Violation.

APPLICATION

- ✦ Chemical & Pharmaceutical Industries
- ✦ Oil & GAS Pipeline Projects
- ✦ Stack & Ambient Air Quality Monitoring
- ✦ Fertilizer and Chlorination plant
- ✦ Power Plant, Petrochemical and Refineries
- ✦ Coal Mines and Confined Area
- ✦ Chemical Storage and Processing Area
- ✦ Offshore Drilling and Processing Platform

TECHNICAL SPECIFICATION

Detection Method	Electrochemical / Catalytic Bead Pellistor / Siegistor
Gases Detected	Oxygen / Toxic / Combustible / VOC
Display	Seven Segment LED Display / Touch Screen LCD Display
Control Action	1) Two Nos. Alarm for High and Low setpoint 2) User selectable Hysteresis & Logic Option
Alarm	Buzzer and Flasher for Alarm Indication
Accuracy	+/- 2% of FS
Response Time	< 10 Sec
Supply Voltage	24 V DC
Power Consumption	< 3.6 Watts
Output	4 - 20 mA DC Re-Transmission Output with configurable range selection
Communication	Modbus RTU Multidrop RS485 / RF-Wireless / Wi-Fi / Bluetooth
Operating Temperature	-15 to 60 Degree C
Storage Temperature	-15 to 65 Degree C
Humidity	Less than 95 % Non - Condensing
Protection Class	IP65 / IP66 / IP67
Mounting	Wall / Stand / Pipe Mounting

GASES MEASURED AND MEASUREMENT RANGE WITH RESOLUTION

SR NO	GAS	Range	Unit	Res
G1	Oxygen (O ₂)	25	%Vol.	0.1
G2	Oxygen (O ₂)	100	%Vol.	0.1
Toxic Gases				
T1	Carbon Monoxide (CO)	1000	PPM	1
T2	Carbon Dioxide (CO ₂)	5000	PPM	50
T3	Carbon Dioxide (CO ₂)	0-5	% VOL	0.1
T4	Sulphur Dioxide (SO ₂)	100	PPM	1
T5	Chlorine (CL ₂)	20	PPM	0.1
T6	Nitrogen Dioxide (NO ₂)	20	PPM	0.1
T7	VOC	1000	PPM	10
T8	Hydrogen Flouride (HF)	20	PPM	0.1
T9	Ammonia (NH ₃)	100	PPM	1
T10	Hydrogen sulfide (H ₂ S)	100	PPM	1
Combustible Gases				
C1	Methane (PNG)	0-100	%LEL	0.1
C2	Propane & Butane (LPG)	0-100	%LEL	0.1
C3	Hydrogen (H ₂)	0-100	%LEL	0.1