



ESTD. 1990

TECHNOVATION ANALYTICAL INSTRUMENTS PVT. LTD.

W-312, 13th Cross Road, M.I.D.C., Rabale, Navi Mumbai-400701, Maharashtra, India.

Tel.: 9967177429 / 9870675538.

CIN NO: U99999MH1990PTC057660

E-mail : taiplem@gmail.com Website: www.technovationindia.com

ISO 9001:2015



Cert. No. QMS0720020347

SR 2026 FIELD SWAPPABLE SMART SENSOR WITH DISPLAY, ALARM & FAULT RELAYS, FLASHER & HOOTER AND MULTI DROP TO TOUCH SCREEN HMI WITH DATA STORAGE

THE INSTRUMENT

These Single Point Wall Mounted Instruments work on 18-24VDC and has a PESO certified Ex proof sensor housing fitted on an Ex-proof Junction box. They use a SMART SENSOR which can be easily swapped in field. They are provided with two alarms both audible and visual along with relays and RS485 Modbus RTU protocol hence many such devices can be connected to Touch screen HMI. They are meant for continuous operation.

A 10" touch screen can display a whole load of information including Readings Trends, Alarms, Warnings and a faults can save all data of each of the detectors connected to it.

FEATURES

Type of sensors that can be connected are Electrochemical, NDIR, Pellistor, Thermal conductivity, Photo-ionisation etc...

- Sensors can be replace insitu after calibration in a laboratory or workshop. Auto detection of sensor.
- Three, Wand operated keys.
- Two Alarms audible and Visual along with acknowledge and reset buttons, both set points viewable from front face using a wand.
- One Fault alarm. One NO, C, NC potential free relay contact per alarm indicator
- System uses RS485 for multiple detectors and has a RS485 modbus RTU protocol Output for PLC, DCS etc.
- Calibration, expected sensor life, and other faults viewable on HMI

APPLICATIONS

Used in Hazardous areas for Group IIA, IIB or Group IIC gases. Zone 1 and Zone 2 for gas sensing with appropriate sensor.

STANDARD SPECIFICATIONS

Display : 4-digit LED, 12 mm high
 Sensor : Electrochemical type, expected life over 2months. NDIR, TC, Pellistor, PID ETC...
 Working Temp : 0-45 °C
 Accuracy : ± 5% at constant temp.
 Overall size : 150 x 150 x 120 mm deep, sensor housing.
 Relay Ratings : 50VA resistive load

SMART SENSOR SURVEILLANCE SYSTEM



TECHNOVATION[®] MODEL SR 2026

STANDARD SPECIFICATIONS CONTINUED

Power Supply : 18-24 VDC for modules & HMI
 Power Supply HMI : 220VAC 50 HZ HMI
 Instrument Case : IP67 Aluminum Ex-Proof enclosure
 Sensor Housing : PESO approved Exproof
 Gas & Range : Any one as in Table Below, specify in PO.
 Calibration : By Calibration gas ,
 HMI : 10 " touch screen. 2 GB data storage and with pen drive PORT

CERTIFICATIONS

Ex db IIC T6 Gb (0°C≤Ta≤+55°C) FOR ZONE 1 & 2 GAS GROUP IIC
 ASSOCIATED STANDARDS: IS/IEC 60079-0:2017 & IS/IEC 60079-1:2014
 BIS : 7800109425
 PESO : A/P/HQ/MH/10EX4/7654 (P564213)
 TE REPORT No: KLPL/Ex/19-082X ISSUE 1,
 DT: 04-03-2023

ACCESSORIES

Wand, Flow thru cap provided.

OPTIONAL EXTRA

Ex proof hooter flasher
 Weather Shield

GAS	RANGE	RESOLUTION	GAS	RANGE	RESOLUTION
O ₂	0 - 25 %	0.1%	SO ₂	0 - 20 ppm	0.1ppm
CO	0 -1000 ppm	1ppm	CL ₂	0 - 50 ppm	0.1ppm
H ₂ S	0 -100 ppm	0.1ppm	NO	0 - 50 ppm	0.1ppm
H ₂	0 -1999 ppm or 2 %	1 ppm or 0.01%	HCN	0 - 30 ppm	1ppm
NO ₂	0 - 100 OR 1000 ppm	1ppm	ETO	0 -100 ppm	0.1ppm
O ₃	0 - 1 ppm	0.01 ppm	R134 A	0 – 2000 ppm	1ppm
C ₂ H ₄	0 – 1500 ppm	1 ppm	BINARY GASES BY THERMAL CONDUCTIVITY		
CO ₂	0 - 5, 0 - 20, 0 - 100%	0.01, 0.1%	FLAMMABLE GASES 0 - 100 % OR LEL 1% STEPS		
CH ₄	0 - 5 , 0 - 100 %	0.01, 0.1%	OTHER GASES & RANGES ON REQUEST		