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## TECHNOVATION ANALYTICAL INSTRUMENTS PVT. LTD.

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ISO 9001:2015



Cert. No. QMS0720020347

### SR 2025 EX 4-20mA XTR EXPLOSION PROOF WITH DISPLAY, ALARM RELAYS, FLASHER & HOOTER & PESO APPROVED SENSOR HEAD.

#### THE INSTRUMENT

These Single Point Wall Mounted Instruments work on 18-24VDC and have a PESO certified Ex proof sensor housing fitted on an Ex-proof Junction box. They use an IP 55 enclosure for the electronics as standard. They are provided with two alarms both audible and visual along with relays and output of 4-20 mA. They are meant for continuous operation of area monitoring with continuous read out, plus vital status indicators

#### FEATURES

Type of sensors that can be connected are Electrochemical, NDIR, Pellistor, and Thermal conductivity depending on gas and application.

- 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
- 4-20 mA Output for PLC, DCS etc.
- Explosion proof hooter-flasher.

#### APPLICATIONS

Used in Hazardous areas for Group IIA, IIB or Group IIC gases. Zone 1 and Zone 2 for gas sensing with appropriate sensor in conjunction with the necessary FLP enclosures for instrumentation or wiring, for detection of toxic or flammable gases in work places or enclosed spaces for safety. Measurement of **Hydrogen in** battery rooms .

#### 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)

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### Single Point Surveillance 4-20mA transmitter



### TECHNOVATION<sup>®</sup> MODEL SR 2025 EX

#### STANDARD SPECIFICATIONS

Display	: 3 1/2-digit LED, 12 mm high
Sensor	: Electrochemical type, expected life over 24 months. NDIR, TC, Pellistor
Working Temp	: 0-45 °C
Accuracy	: ± 5% at constant temp.
Overall size	: 150 x 150 x 120 mm deep
Output	: 4-20 mA ( Max load 470 Ohms)
Relay Ratings	: 50VA resistive load
Power Supply	: 18-24 VDC specify while ordering
Instrument Case	: IP67 Aluminum Ex-Proof enclosure
Sensor Housing	: PESO approved Ex-proof
Gas & Range	: Any one as in Table Below, to be specified while ordering.
Calibration	: By Calibration gas or Sensor O/P

**ACCESSORIES** : Wand provided.

**Optional Extra:** Sensor Weather Shade.

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

**Typical Gases and Ranges on offer. Please consult us for your specific requirements**

We reserve the right to alter these specifications at any time in accordance with our policy of continuous improvement. DREF:SR2025 EX REV 1