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## TECHNOVATION ANALYTICAL INSTRUMENTS PVT. LTD.

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ISO 9001:2015

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Cert. No. QMS0720020347

## 4 -20mA LOOP POWERED TWO WIRE INDUSTRY STANDARD FLP ENCLOSURE TRANSMITTER

### THE INSTRUMENT

Often it is more cost effective to replace a sensing head with one which is pre-calibrated at a testing station, thus reducing disruption of the measuring system. Technovation offers such an industry standard 4-20mA transmitter consisting of an electrochemical sensor, its associated circuitry and in a Ex-Proof housing and Ex-proof Sensor head.

### FEATURES

The two-wire transmitter with a local display for measured parameter value allows the signal and power to be supplied on a single wire-pair by modulating the power supply current with the input signal source. The transmitter is immune to voltage drops from long runs and noise from motors, relays, actuators, switches, transformers and industrial equipment.

### APPLICATIONS

Every transmitter is supplied pre-calibrated for a customer specific range. The table below gives an indication of the gases/ranges offered. These transmitters can be connected to a DC system which supplies the DC Power for the loop. They could also be connected to stand alone controllers and PLCs and other data acquisition systems

### STANDARD SPECIFICATIONS

Power Supply	: 12 to 24 VDC
Sensor Expected life	: 2 years in air
Sensor type	: Electrochemical
Duty	: Continuous
Operating temp	: 5 °C to 45 °C
Operating Humidity	: 10 - 90 % RH
Operating Pressure	: Ambient
Output impedance	: 2 M Ohms
Calibration	: Via built in Span and Zero potentiometers.
Housing	: Cast Aluminum Ex-proof housing
Sampling	: Diffusion mode OR in flow through mode.
Display	: LCD Display.
Size and weight	: 120x120x90 mm. 1kg
Connection size	: M20 threaded cable entries for cable gland and for sensor head.

### MODULAR CONVENIENT AND INDUSTRY STANDARD COMPATIBLE



### TECHNOVATION<sup>®</sup> 4 - 20 mA LOOP POWERED TWO WIRE TRANSMITTER

Sensing Head : **PESO** certified and **BIS** marked  
Explosion proof sensing heads as per IEC 60079-01: 2014 available with flow thru cap

### POWER SUPPLY RESTRICTIONS

As the minimum operating voltage for the transmitter is 12 VDC it will impose constraints on the total loop resistance in the external circuit, and this must be taken into account when choosing the supply voltage

### OPTIONAL EXTRA

Weather Shade for Sensor Holder

TABLE OF GASES & RANGES	
OXYGEN	0 - 25 %
CARBON-MONOXIDE	0 - 1000 PPM
HYDROGEN SULPHIDE	0 - 100 PPM
SULPHUR DIOXIDE	0 - 20 PPM
CHLORINE	0 - 50 PPM
NITROGEN DIOXIDE	0 - 100 PPM
HYDROGEN	0 - 1000 PPM
HYDROGEN CYANIDE	0 - 30 PPM
OZONE	0- 5 PPM
PHOSPHINE	0 - 1 PPM
AMMONIA	0 - 100 PPM
PHOSGENE	0 - 1PPM
HYDRAZINE	0 - 1PPM
<b>OTHER GASES AND RANGES ON REQUEST</b>	