



ESTD. 1990

TECHNOVATION ANALYTICAL INSTRUMENTS PVT. LTD.

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ISO 9001:2015

UNICERT
ISO 9001



Cert. No. QMS0720020347

4 -20mA - 3 WIRE INDUSTRY STANDARD TRANSMITTER IN FLP JB & PESO APPROVED HEAD

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 a gas sensor, its associated circuitry with a display and in a certified Ex-proof junction box. A sensor housed in a certified Ex-proof housing is fitted to the transmitter.

FEATURES

The three-wire transmitter allows the power and signal to be realized on a three-core wire. One core for positive supply of 12 to 24 VDC, the second core for the 4 to 20 mA output and the third core for the 0 volt supply. 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 module. They could also be connected to stand alone controllers and PLCs and other data acquisition systems

STANDARD SPECIFICATIONS

Power Supply : 12 to 24 VDC.(See Note)
Sensors offered : Choices as per table below.
Duty : Continuous
Display : 4-digit LED
Temp : 20 °C to 45 °C
Humidity : 10 - 90 % RH
Pressure : Ambient
Load resistance : <500 Ohms depends on supply voltage
Housing : Aluminum Ex-proof JN. Box for Gases Gr II A,B an GR II C Zone 1 & 2

MODULAR CONVENIENT AND INDUSTRY STANDARD COMPATIBLE



TECHNOVATION[®] 4 - 20 mA THREE WIRE FLP TRANSMITTER

STANDARD SPECIFICATIONS CONTINUED

Enclosure size : 12x8x8.5 (WxHxD) Cms
Sampling : Diffusion mode
Calibration : Via built in Span and Zero potentiometers.
Flow Thru Cap : Provided
Sensor Head : PESO certified and BIS marked Explosion proof sensing heads as per IEC 60079-01: 2014 available with flow thru cap

NOTE : POWER SUPPLY RESTRICTIONS

As the minimum operating voltage for the transmitter is 12VDC 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. This includes the cable resistance, and the measuring resistor at the remote receiver and any meters used for calibration

SENSOR TYPE	RANGE	SENSOR TYPE	RANGE
PELLISTOR	0-100% LEL of combustible gases.	Thermal conductivity	Gas and range on request
NDIR	CO2 0-5% OR 0-10% OR 0-20% OR 0-100%	Semiconductor	Gas and range on request
	CH4 0-5 % OR 0-100%	PID	Gas and range on request
OTHER GASES AND RANGES ON REQUEST			