



ESTD. 1990

TECHNOVATION ANALYTICAL INSTRUMENTS PVT. LTD.

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ISO 9001:2015



Cert. No. QMS0720020347

4 – 20 mA - 3 WIRE INDUSTRY STANDARD TRANSMITTERS

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 weather-proof housing.

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 .
- Sensor types offered : Non dispersive Infra Red (NDIR) , Pellistor, DP moisture , RH, VOC, PID & many other types as applicable.
- Duty : Continuous
- Display : 4-digit LED
- Operating temp : 20 °C to 45 °C
- Operating Humidity : 10 - 90 % RH
- Operating Pressure : Ambient
- Load resistance : < 500 Ohms
- Calibration : Via built in Span and Zero potentiometers.
- Housing : Poly Carbonate weather proof housing. **OR** Aluminum JN. Box
- Enclosure size : 12x8x8.5 (WxHxD) Cms
- Sampling : Diffusion mode **OR** in Flow through mode

MODULAR CONVENIENT AND INDUSTRY STANDARD COMPATIBLE



TECHNOVATION® 4 - 20 mA THREE WIRE TRANSMITTER

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. This includes the cable resistance, and the measuring resistor at the remote receiver and any meters used for calibration

OPTIONAL EXTRA

- Flow indicator : Can be provided separately
- Housing : Aluminum Junction Box. : Ex-proof sensing head.

TABLE OF SENSORS, GASES & RANGES

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