

iTrans™

Fixed-Point Monitors

Single Remote Toxic/Combustible Gas Monitor

Available in any gas

Sensors can be mounted 200 meters away

Detection Principle:

Electrochemical, Catalytic Bead, IR

Sensors Available:

CO	0 – 999 PPM
H2S	0 – 500 PPM
CL2	0.2 – 99.9 PPM
O2	0 – 30% VOL
NH3	0 – 200 PPM
NO	0 – 99.9 PPM
NO2	0 – 99.9 PPM
H2	0 – 999 PPM
ClO2	0.2 – 2.0 PPM
HCN	0 – 30 PPM
PH3	0 – 1.0 PPM
HCL	0 – 30 PPM
SO2	0 – 99.9 PPM
LEL Comb	0 – 100 %LEL
LEL BBIR	0 – 100 %LEL (30 meter limit)



Display:

4 digit, 7 segment, red LED

Temperature and Humidity:

Temperature -20° C ~ +50° C
(Intermittent Operation) -40° C ~ +60° C
Humidity 10 % - 90 %

Power Supply (input voltage and current)

24 VDC (12-28 VDC), 300 mA (nominal)

4-20 mA Output Signal

3-wire interface
1000 ohms @ 24 VDC, 500 ohms @ 12 VDC
User programmable scaling

Digital Signal:

ModBus RTU protocol
User programmable ID
200 meters max distance (100 meters BBIR)

Alarms:

User programmable low and high alarms, fault
Display indication for alarms

SPECIFICATIONS

INDUSTRIAL SCIENTIFIC
CORPORATION

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Relays (Optional):

Three SPST, normally open relays
Contact Capacity: 5 A at 110VAC or 30 VDC

Calibration Interface:

Magnetic wand (non-intrusive)
Microprocessor Controlled

Programming and set up interface:

Push button

Wire Terminations:

Screw down terminals (18-24 AWG)
18 AWG (1mm) shielded cable recommended

Approvals:

NRTL & CSA
UL Std No: 916-Energy Management Equipment
UL Std No:1203-Explosion-Proof and Dust-Ignition-Proof
Electrical Equipment for Use in Hazardous (Classified) Locations
CSA Std C22.2 No.30-M1986-Explosion-Proof Enclosures for Use in Class I
Hazardous Locations
CSA Std C22.2 No.142-M1987-Process Control Equipment
IEC & ATEX: EEx d IIB+H2 T4
EN50014 ; EN50018 ; EN50270 ; EMC EN55022 EN 50082-2: 1995
Lower Voltage EN60335-1 Part 1:1994 and 11: 1995

Housing (main electronics unit):

Material: Cast-Aluminum
Explosion-proof Class: Class 1, Div 1 & 2 Group B,C,D, and Ex d IIB
(Europe), Ex d IICT4 or CT6(China)
Dimensions: 5.0 x 6.0 x 5.0 inches (127 x 153 x 129 mm)

Sensor Housing Material:

Aluminum, Anodized
Dimensions: 3.0 x 3.0 inches (76 x 76 mm)

Total Weight:

14 pounds (6.34 kg)

Conduit Connections:

¾ in NPT(19 mm)
2 conduit inlets

Warranty:

One year material and workmanship

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