

FIELD TRANSMITTER

FOR EXPLOSIVE & TOXIC GASES, OXYGEN.



WP 98



EXPO 98 FTD

ENDEE Field proven gas Transmitters continuously monitors for dangerous concentrations of gases. The linearised 4-20 mA transmission can interface directly with any receiving instrument starting from indicators, controllers to large control systems.

The standard system consist of a compact electronic module housed in a Weatherproof or explosion proof Metallic or Polyester box with an application specific gas sensor.

This state of the art transmitter is carefully designed with and manufactured with Industrial grade Components for reliability accuracy and long life. It is certified intrinsically safe and is available in 2 or 3 wire version, with or without local indication and other several options to suit application requirements.

It is certified for use in hazardous areas Class 1, Division 1, Group B, C & D. (IIA, IIB or IIC) apart from being available in weatherproof Enclosure

While Combustible and Toxic gas transmitters using Catalytic or Solid state Sensors are necessarily 3 wire type, Electrochemical sensor based transmitters are of 2 wire type. All transmitters with local display are 3 wire type. Smart Transmitters (Prefix, S) are equipped with micro controller and are heavily featured with self diagnostic, auto calibration through embedded software, programmable with integrally mounted switches and provide RS 232/485 output as an option in addition to 4-20 mA current output.

SPECIFICATIONS

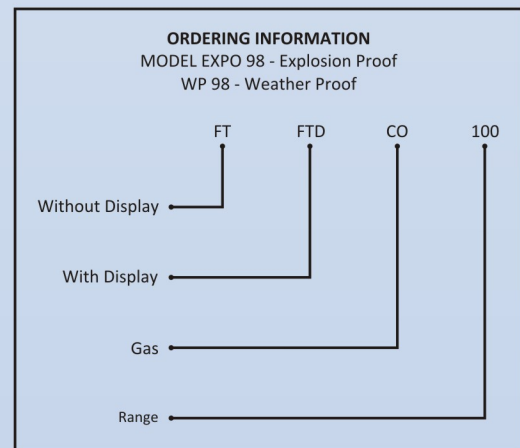
Gases & Ranges

Gases	Oxygen	Hydrocarbon, Hydrogen		
Range	% 0-25/100	LEL 0-100 %	PPM 0-1000	% 0-100
Detection Principle	Electrochemical	Catalytic Combustion	Semiconductor Electrochemical	Thermal Conductivity

Gases	H2S	CO	SO2	NO	CL2, BR2, F2	HCL	HCN	NO2	NH3	CO2
Range	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%
Max.	1000	4000/10%	2000	5000	2000	200	200	1000	1000	100 %
Min.	5	20	3	10	3	5	10	3	10	0.3

Detection Principle Application Based Electrochemical, Semiconductor or PID

Response Time	: < 5 seconds
Zero drift	: 0.2% Fs
Linearity	: +/- 2% Fs
Accuracy	: +/- 2%
Repeatability	: +/- 2%
Operating Voltage	: 22-30 Volt DC
Operating Temperature	: 0-50 C
Terminations	: PCB mounted terminal blocks to accept 1.5mm wires
Display	: Inbuilt 0.5" LCD
Output	: 4 - 20 mA Linear/ 0 - 1Volts DC (V)/RS232/RS485
Power Consumption	: 2 wire: 0.5 W max. 3 wire: 3.6 W max.
Max. Load	: 600 Ohms
Mounting Holes (Ex-Proof)	: 2 holes, 8mm, Spaced at 140/133mm
(Weather-Proof)	: 4 holes, 6mm, Spaced at 860/860mm



The Minimum & Maximum ranges & the Gases Indicated are Intended as a Guide for full scale detection.

Note : Specifications and Features will vary with application. The above are established and validated during design, but are not to be construed as test criteria for every product. Due to endee's commitment to research, design and product improvement, specifications are subject to change without notice.



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