



HAZARDOUS LOCATIONS

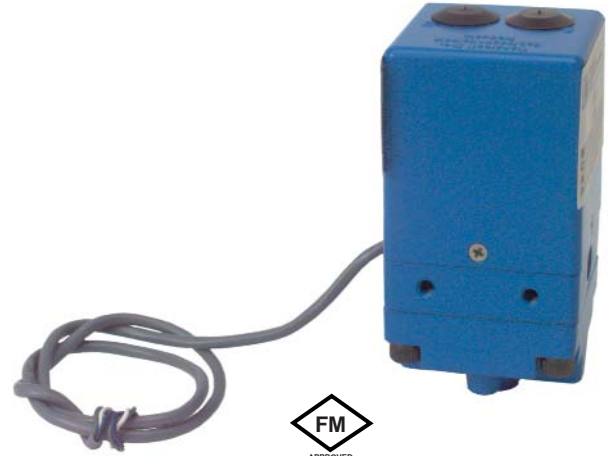
INTRINSICALLY SAFE DIFFERENTIAL PRESSURE TRANSMITTER 152S SERIES

DESCRIPTION

The **152S Series Intrinsically Safe Differential Pressure Transmitter** monitors differential pressure in an explosive environment. The **152S Series** has a 4-20 mA output proportional to the transmitter range and is housed in a NEMA 1 enclosure. The enclosure features an aluminum housing with an intrinsically safe rating of Class I, Division 1, Groups A, B, C, D.

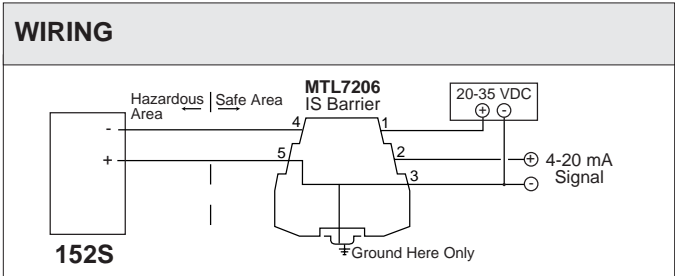
FEATURES

- *Class I, Division 1, Groups A, B, C, D*
- *Ranges from 1.5 to 300 psig (10.3 to 2068 kPa)*
- *4-20 mA loop powered*
- *Zero and span adjustments*
- *Polarity reversal protection*



SPECIFICATIONS			
Voltage	12-38 VDC, 24V nominal	Zero/Span	±5% of full range
Accuracy	±0.5% of full scale	Classifications	Intrinsically safe Class I, Div 1, Groups A, B, C, D
Signal	4-20 mA @ 600Ω impedance	Agency	FM
Ranges	See Ordering Information	Weight	0.75 lb (0.34 kg)
Differential pressure	150% of rated pressure	Dimensions	2.15"D x 2.15"W x 4.18"H (5.4 x 5.4 x 10.6 cm)
Burst pressure	450 psig (3100 kPa) on both ports	Electrical	Twin 22 AWG, 18" (46 cm) in PVC Cable
Medium	Noncorrosive gases or liquids	Pressure connections	1/8" FNPT
Ambient	-40° to 176°F (-40° to 80°C)		
Entity	$V_{max} = 40V, I_{max} = 267 mA$		
Parameters	$C_i = 0, L_i = 0$		

CAUTIONS: Intrinsically safe devices require the use of an intrinsic safety barrier when applied in hazardous locations. Provide wiring and grounding in accordance with manufacturers' instructions. When the Model 152S is combined with the MTL7206 intrinsic safety barrier, total cable capacitance must be limited to 0.12 μF, and inductance must be limited to 4.0 mH (equivalent to 5000'/1520m maximum Belden® #8760 18/2 shielded cable).



ORDERING INFORMATION

MODEL	DESCRIPTION	RANGE psig (kPa)
152S-P015	4-20 mA Differential Pressure Transmitter	0-1.5 (0-10.3)
152S-P030	4-20 mA Differential Pressure Transmitter	0-3.0 (0-20.7)
152S-P060	4-20 mA Differential Pressure Transmitter	0-6.0 (0-41.4)
152S-P110	4-20 mA Differential Pressure Transmitter	0-10.0 (0-68.9)
152S-P115	4-20 mA Differential Pressure Transmitter	0-15.0 (0-103)
152S-P130	4-20 mA Differential Pressure Transmitter	0-30.0 (0-207)
152S-P160	4-20 mA Differential Pressure Transmitter	0-60.0 (0-414)
152S-P210	4-20 mA Differential Pressure Transmitter	0-100 (0-689)
152S-P230	4-20 mA Differential Pressure Transmitter	0-300 (0-2068)

Related Products	
MTL7206	Intrinsic safety barrier
BVA-5	Bypass valve assembly
PT	Steam pigtail syphon