



PRESSURE

DIFFERENTIAL PRESSURE TRANSMITTERS

M30/40, T30/40 SERIES

DESCRIPTION

Modus **M30/40** and **T30/40 Series Differential Pressure Transmitters** are reliable, stable, low-air pressure transmitters with 4-20 mA outputs. The **M30** and **T30 Series** are DC-powered, while the **M40** and **T40 Series** are AC-powered. Ranges up to 2" W.C. utilize a differential capacitance cell for pressure measurement. Higher ranges utilize piezoresistive sensors. Ranges are available from 0" to 0.1" W.C. to 0" to 10" W.C.

All models may be furnished in bidirectional ranges, which will measure both positive and negative pressure differentials. **Models M30** and **M40** are for NEMA 4 applications or applications that require CE-approved products.



M30



T30



Distributor
GE Sensing & Inspection Technologies

FEATURES

- *Position insensitive*
- *No moving parts to wear out*
- *Compact size*
- *Fast response time due to low internal volume*
- *Solid-state circuitry for long life*
- *Low-power consumption*
- *NEMA 4 enclosure and CE certified (Models M30/40)*

APPLICATION

- *General automation*
- *Medical and analytical instruments*
- *Leak detection*
- *HVAC monitoring of the following:*
 - *Filter differential pressures*
 - *Clean room pressures*
 - *Variable air volume systems*
 - *Velocity pressures*

SPECIFICATIONS

Supply voltage

M30, T30	11-32 VDC (protected against reversal of polarity)
M40, T40	19-32 VAC (24 VAC nominal); 100-140 VAC (120 VAC nominal)

Power

M30, T30	0.9 VA
M40, T40	1 VA

Accuracy

1% of range (including non-linearity and hysteresis)

Thermal effects

Zero	±0.05%/°C
Span	±0.02%/°C

Output

4-20 mA

Max load

M30, T30	700Ω @ 24 VDC (= 50 x VDC – 500)
M40, T40	750Ω

Overpressure

See Figure 1 in Ordering Information

Service

Air and non-corrosive gases

Temperature ratings

Operating	32° to 115°F (0° to 45°C)
Storage	-20° to 160°F (-30° to 70°C)

NEMA/IP ratings

T40, M40	NEMA 4 (IP65)
T30, M30	None

Connections

Pressure

3/16" diameter suitable for 1/8" or 5/32" ID (1/4" OD) Tygon or polyurethane tubing; integral filters at both ports

Electrical

3/8" terminals, #6 screws

Vibration resistance

5G to 50 Hz

Zero/Span adjustments

Non-interactive adjustments by means of 20-turn potentiometers for fine resolution

Agency approval

M30, M40 CE certified

Weight

M30	1.27 lb (0.58 kg)
M40	1.2 lb (0.55 kg)
T30	0.42 lb (0.19 kg)
T40	0.57 lb (0.26 kg)

Case

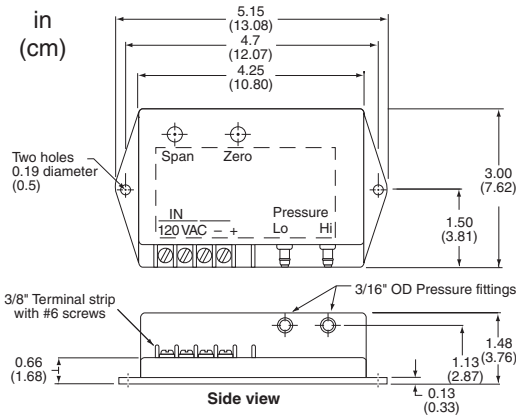
M30, M40 NEMA 4, aluminum alloy #A380
T30, T40 Flame retardant, glass-reinforced NORYL

Warranty

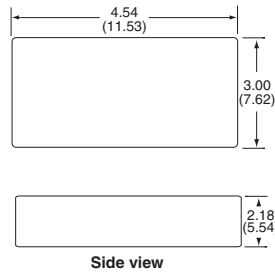
1 year



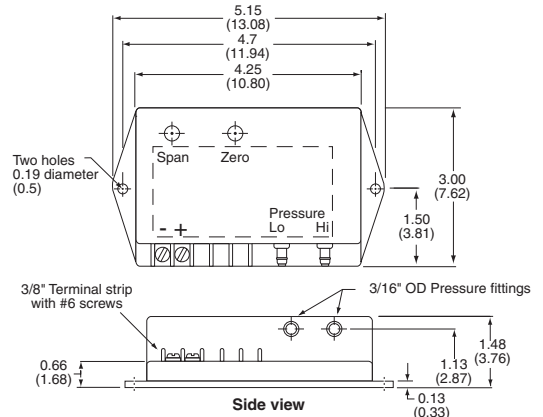
DIMENSIONS



T40

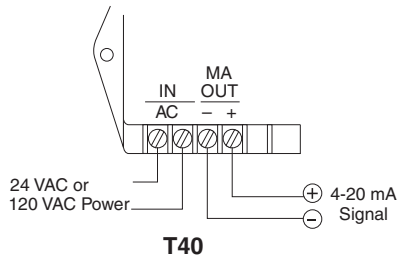


M30/M40

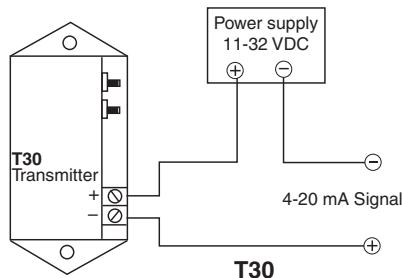


T30

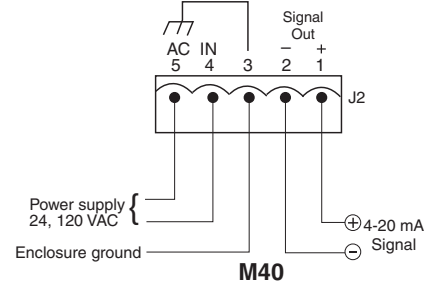
WIRING



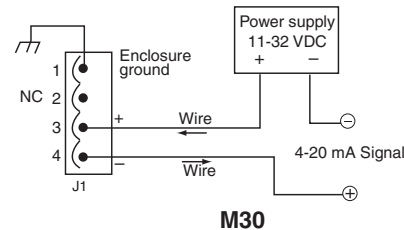
T40



T30



M40



M30

ORDERING INFORMATION

MODEL	DESCRIPTION
T30	Differential pressure transmitter with NEMA 1 case
T40	Differential pressure transmitter with NEMA 1 case
M40	Differential pressure transmitter with NEMA 4 case, CE certified
M30	Differential pressure transmitter with NEMA 4 case, CE certified
XXX	RANGE CODE (see Table 1 to the right)
	POWER SUPPLY (T40, M40 only)
C	24 VAC power
D	120 VAC power
	OPTIONS (leave blank for standard unit)
B	Bidirectional (12 mA @ zero pressure)

T40 **002** **C** **B**

Example: T40-002-C-B Differential pressure transmitter 4 mA @ -0.2" W.C., 12 mA @ 0" W.C., and 20 mA @ +0.2" W.C., 24 VAC power

Note: NIST certification options available, consult Kele

TABLE 1. RANGE			
RANGE CODE	GE MODEL	PRESSURE RANGE*	
		"W.C.	Overpressure
001	01E	0-0.1	5" W.C.
002	02E	0-0.2	5" W.C.
003	03E	0-0.3	5" W.C.
005	04E	0-0.5	5" W.C.
010	05E	0-1.0	20" W.C.
020	06E	0-2.0	20" W.C.
030	07E	0-3.0	20" W.C.
050	08E	0-5.0	5 psid
100	09E	0-10.0	5 psid

*Call Kele for higher pressure ranges or metric ranges