General Information

PTXV07 senses pressure and generates a proportional electrical output signal.

Safety Instructions

Read the installation instructions thoroughly. Failure to comply can result in device failure, system damage or personal injury. Before opening any system make sure the pressure in the system is brought to and remains at atmospheric pressure.

Make sure that the supply voltage to system and PTXV07 are disconnected before installation or service.

Compliance with local electrical regulations must be observed when connecting PTXV07.

Improper installation of the cable between the pressure transducer and the electronic system may affect the output signal of the pressure transducer. Standard JTL installation procedures must be followed.

The PTXV07 is factory set. Do not modify the range setting. Improper adjustment may result in system damage or failure.

Do not exceed proof pressure.

Mounting

Connection is 7/16" 20UNF (¼ Flare) with Schrader Depressor. Do not exceed max torque of 15 Nm.

Do not subject the transducer to high temperature as a result of soldering, braising or welding.

For frozen applications, ensure that the transducer is outside the cooled envelope and is not subjected to excessive conducted low temperature from the refrigeration system. The use of Polyamide capillary (available from TITAN Engineering Ltd, Cornwall House, Station Approach, Princes Risborough, Bucks HP27 9DN) enables the transducer to be heat insulated from the cold pipes and to be located outside the cold envelope. Document PTXV_guidancenote.wpd from JTL gives further details.

Mounting position: as desired

Wiring

Two wire connection for connection to JTL controllers see Figure 1.

Dimensions

See Figure 2.

Technical Data

Pressure range	-0.8 . . 7 bar gauge (-11.6 . . 101.5 psig)
Proof pressure, max	25 bar gauge (362 psig)
Output	4 . . . 20 mA
Supply voltage	10.8 . . . 28 V dc two wire protected against reverse polarity
Permissible noise and ripple	<1 V p-p
Load resistance for output	$R\# \frac{\text{supply voltage - 8.8V}}{20\text{mA}}$

Total Error (including hysteresis, repeatability and linearity)	70°C - 22°C ± 0.3 bar (4.5 psi) 22°C - 18°C ± 0.2 bar (2.5 psi) 18°C - 0°C ± 0.1 bar (1.5 psi) 0°C - -20°C ± 0.3 bar (4.5 psi)

Media compatibility:	HFC, HCFC, CFC
Media temperature range:	-40 . . . 135°C
Ambient temperature range:	-30 . . . 70°C

Protection: IP65 according to IEC529 (DIN43650)

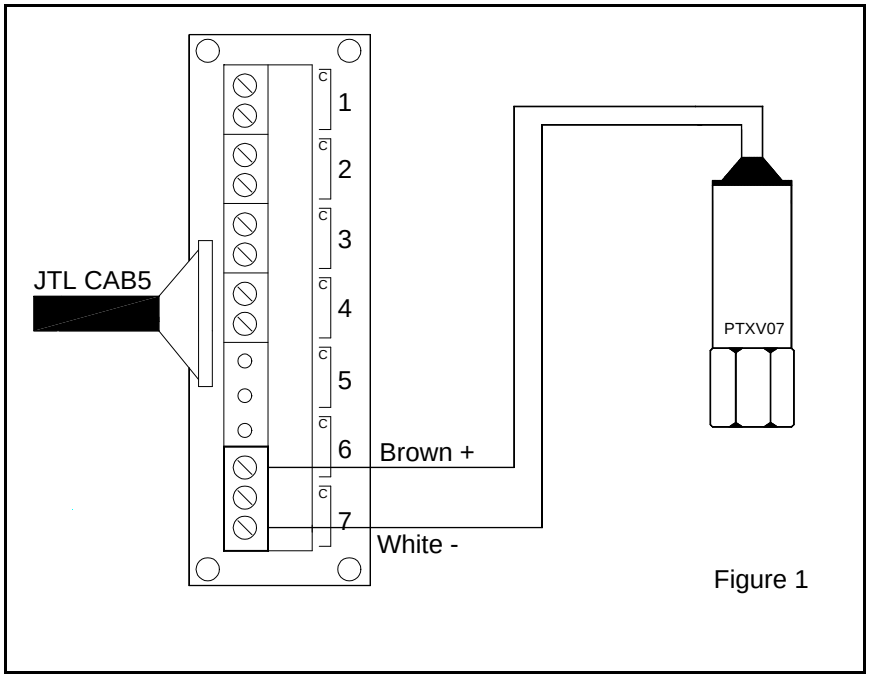

Figure 1

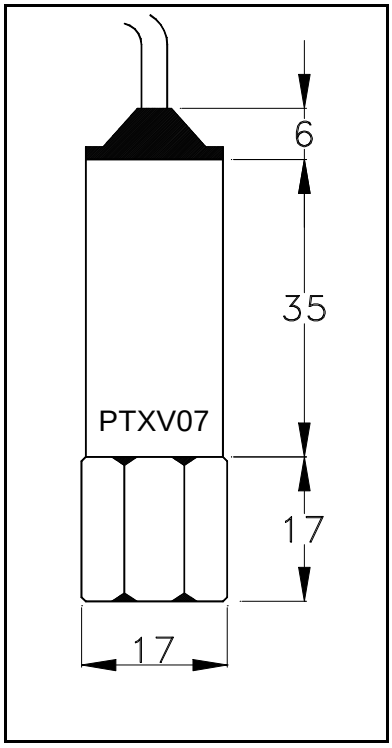

Figure 2

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