General Information

PTXV07A 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 PTXV07A are disconnected before installation or service.

Compliance with local electrical regulations must be observed when connecting PTXV07A.

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 PTXV07A 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 LT (frozen) Applications

The transducer must be outside the refrigerated envelope and must not be subjected to excessive low temperature by conduction from the refrigeration system. Polyamide capillary (available from JTL Systems) can be used to insulate from the cold pipes by enabling the transducer to be located outside the cold envelope. Please see Document 03211 for further details.

Mounting position: as desired

Wiring

Two wire connection for connection to JTL controllers see Application Drawing 03157.

Technical Data

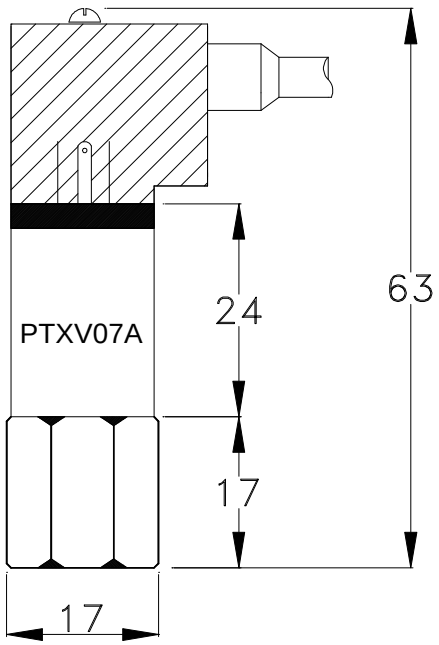
Pressure range	-0.8 . . 7 bar gauge (-11.6 . . 101.5 psig)
Proof pressure, max	25 bar gauge (362 psig)
Output	4 . . . 20 mA
Supply voltage	10.8 . . . 28 V dc two wire protected against reverse polarity
Permissible noise and ripple	<1 V p-p
Load resistance for output	$R \leq \frac{\text{supply voltage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

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

Dimensions :



Applicable Documentation:

Application Drawing:	Doc No. 03157
Additional Installation Notes:	Doc No. 03211
Conversion Guide:	Doc No. 03170

www.jtl.co.uk
JTL Systems Ltd . 41 Kingfisher Court . Hambridge Road . Newbury . Berks . RG14 5SJ Tel: (01635) 263646 Fax: (01635) 263647