

Please Read Carefully Before Installing

Part Number: 560550-0069, Issue A

Introduction

WPT Gauge high output transducers and transmitters with the CE Mark conform with the essential protection requirements of the EMC Directive 89/33/EEC amended by certified type testing to EN 50082-2 and EN 50081-1.

Electrical Installation

All types with the CE Mark include suppression devices providing transient protection to EN 6100-4-2 and EN 61000-4-4. Conformity with the requirements of the CE mark only applies when connection is made with approved cable, see Approved Cable section, and is connected as shown below:-

The screen of the cable must be earthed at the instrumentation end. If an Earth Loop' problem is encountered when the body of the unit is earthed by the pipework it is permissible to remove the cable screen from the instrumentation earth.

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Connector	Voltage Output	4 - 20mA Output
DIN 43650 Code G & R	1 +IN 2 OV 3 +OP 4 Earth	1 +IN 2 OV 3 NC 4 Earth
Cable Code F	Red +IN Blue OV Yell +OP Drain Earth	Red + IN Blue OV Drain Earth

Supply Voltage:

Output	Min	Max
Voltage	MaxOP + 1.5V	35V
Ratiometric Voltage	4.75V	5.25V
Current	7V	35V*

*24V max above 100C

Approved Cable for use with Din 43650 Connector:

Approved cables comprising 2, 3 or 4 colour-coded cores, enclosed by an aluminised polyester screen where the screen is in intimate contact with a separate drain wire. The outer sheath must be compatible with the environment in which it is to be used and have an outer diameter in the range of 5 to 7mm.

General

- Pressure range must be compatible with the maximum pressure being measured.
- Pressure media must be compatible with the transducer / transmitter wetted parts listed in these instructions.
- Liquid must not be allowed to freeze in the pressure port.
- The gasket must be fitted under the electrical connector.

Mechanical Installation

Mounting: Omni-directional, self supported directly into the pipework. Use a 19mm AF (3/4") spanner on the hexagon provided to apply a maximum torque of 27Nm.

Operation

Having installed the transducers as instructed, they are ready for use. Before applying power, check that the correct polarity and excitation levels are being applied.

Load Characteristics (4 - 20mA Current Output)

The total resistive load in the loop (to include all the cable resistance) can be from 'zero to 50 x (supply volts-7) ohms' e.g. with a 24V d.c. supply the permissible load is from zero up to 850 ohms.

Warranty

We guarantee this instrument against faulty workmanship and material for a period of one year from date of delivery. The Company undertake to repair, free of charge, ex-works any instrument found to be defective with the specified period providing the instrument has been used within the specification in accordance with these instructions and has not been misused in any way.

Detailed notice of such defects and satisfactory proof thereof must be given to the Company immediately after the discovery and the goods are to be returned free of charge to the Company, carefully packed and accompanied by a detailed failure report.

Wetted Parts

17 - 4 PH and 15 - 5 PH stainless steels.

Maintenance

Routine Inspection: Not required except for periodic inspection of the cable and connector to ensure that these are neither damaged or softened by incompatible liquid.

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