

ANNEX D PRESSURE TRANSDUCER

This specification calls for the supply and delivery of Pressure Transducer for Metropolitan Cebu Water District. It shall be used on heavy duty applications.

The quotation shall enclose complete technical brochures which shall include:

1. The unit description, application, and benefits.
2. Maintenance manual.
3. Establishment of office for Engineering Support or Services with the Cebu.
4. Proof of experience (track record) in supplying similar products.
5. Certificate of authorized distributorship from the manufacturer.
6. Manufacturer shall be ISO and OHSAS certified.

All these are necessary for the evaluation of the quoted items and therefore are part of the bid.

Technical specifications:

The Pressure Transducer is a type of pressure sensor for use in instrumentation and controls applications. It measures pressure thru a diaphragm sensing element, which changes its electrical resistance in accordance to pressure. It is ideal for liquid pressure measurement particularly in discharge lines and pipes, where it can be interfaced with a PLC system or a digital display panel indicator thru the standard 4-20mA instrumentation current loop.

The transducer shall operate on a continuous, heavy-duty application. It should be similar to "Endress+Hauser Cerabar T" or equivalent.

Specifications:

- Field of application - Absolute/Guage Pressure
- Measuring Range - (0 - 50psi)
(0 - 100psi)
(0 - 150psi)
(0 - 200psi)
- Maximum Working Pressure - 27.57 bar (400psi)
- Supply Voltage - 11 - 30V DC
- Output Signal (Analog) - Current 4 - 20mA
- Electrical Connection - 2 - wire (loop -powered) with 5 meters,
shielded #20-24 AWG with separate ground wire
- Process Connection (Thread) - ½ NPT
- Process Temp. Range - (-20 to +100°C)
- Ambient Temp. Range - (-20 to +85°C)

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- Degree of Protection - IP68 / NEMA6P
- Long term Stability - $\leq 0.15\%$ of URL per year

Warranty and Repair

The supplier shall guarantee the Pressure Transducer against fault of materials or manufacture workmanship for a period of not less than 12 months. Extended warranty beyond one year is welcomed.

The supplier shall guarantee to provide servicing support, repair and replacement for the Pressure Transducer for a period of not less than 5 years.