1.0 General

All transmitters furnished shall be manufactured by a registered ISO 9001 quality standard facility. All transmitters are to be manufactured in the USA.

2.0 Scope

2.1 The system shall measure pressure and temperature.

2.2 The system shall communicate to external devices via industry standard two-wire, 4-20 mA protocol.

2.3 The sensor shall fit inside 1-inch, schedule 40 and schedule 80 PVC casing or larger.

2.4 The system shall be delivered fully assembled and custom-sized for each well.

2.5 The system shall be an **EcoPRO+ Submersible Pressure/Temperature Transmitter**, manufactured by   
Seametrics, or approved equal.

3.0 Sensor Design

3.1 The sensor shall measure pressure and temperature.

3.2 Pressure measurements shall be accurate to ± 0.1% FSO (static, B.F.S.L. at 20° C.)

3.3 The sensor shall be available in absolute or gauge pressure versions.

3.4 The sensor shall be no larger than 0.75" in diameter.

4.0 Cable Assembly Design

4.1 The cable shall HDPE jacketed.

4.2 The cable shall be vented to atmosphere, with a desiccant assembly at the well-head to prevent buildup of moisture in the vent tube, for gauge version sensors.

4.3 The cable shall be continuous with no splices.

4.4 The cable shall terminate with 2 wires plus shield.

4.5 The cable connection to the sensor shall be waterproof up to a pressure of at least 325 psi to prevent leakage of fluid inside the sensor housing.

4.6 The cable shall have a breaking strength of at least 138 lbs.

4.7 All connecting fittings shall be capable of supporting a working tensile load of 50 lbs.

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