

Section 16910 Pressure Monitoring

1. General

1.1 Description

- .1 For all instrumentation, the Equipment Supplier shall furnish all labour, materials, components, and programming, and shall provide all design, assembly, and start-up services required to provide a complete and workable system.
- .2 Provide assistance to the Owner and Engineer for the testing and commissioning of the instrumentation.

1.2 Operation and Maintenance Manuals

- .1 Provided for insertion within the general project operation and maintenance manuals shall be at least four copies of original equipment manufacturer printed manuals. These shall include at a minimum:
 - Full User Manual
 - Installation Instructions
 - Full list of Parameters/Programming Manual
 - Troubleshooting/Maintenance Manual
- .2 A complete list of all parameters programmed into each instrument at the end of commissioning shall be provided for insertion within the general project operation and maintenance manuals. These lists shall be clearly sorted by instrument tag number.

1.3 Submittals

- .1 Submit shop drawings for all flowmeters and flow switches providing full details on make, pipe size, measuring range, instrumentation tag number, full model number (with options clearly indicated), dimensions, wiring and power requirements, digital communication addresses (Modbus, Profibus, Foundation Fieldbus, etc.), and all installation accessories for each flowmeter.
- .2 Shop drawing submittals for flowmeters shall be clearly identified by tag number. For example: “50mm Flowmeter A - FIT-123” and “150mm Flowmeter B – FIT-456”. Like flowmeters can be combined for example: “100mm Flowmeter C – FIT-123/FIT-456/FIT-789”.



2. Products

2.1 UV Supply Header and Chamber Pressure Transmitters

- .1 Installed pressure transmitters shall be suitable for 12-36 VDC operation and feature both an integrated numerical display and keypad, which can be rotated in 90⁰ increments.
- .2 Unit shall be pre-calibrated for an operating range of 0-200 kPa (0 to 30 psig)(pre-calibrated for the required range), and pre-calibrated to display in units of psig, but the unit range shall be keypad programmable over the available span.
- .3 Units shall be capable of 200% overrange based on calibration, have CSA Enclosure 4 housing, 15 mm FNPT connection and wetted parts of 300 series stainless steel.
- .4 Transmitters shall be:
 - Siemens Series DS III 7MF4034-1CA10-1AC6-ZA01+Y01+Y15. Y01:0...30 PSI as available from EB Horsman (604-219-1658) or approved equal.

3. Execution

NOT APPLICABLE

End of Section