



Specifications for Hydro Remote Meter with 4-20mA Transmitter

1.01 GENERAL

1.01.1 Completeness

The system shall be complete with all components, equipment, and appurtenances.

1.01.2 Quality Assurance

All materials and components shall be new and unused of first quality by well-known manufacturers. Inferior materials or components shall not be allowed.

1.02 MANUFACTURER

The manufacturer shall be Hydro Instruments, Telford, PA, USA or approved equal. The chlorination system shall be Hydro Instruments Series 300.

1.03 REMOTE METER WITH 4-20mA TRANSMITTER

1. The remote meter shall be provided to indicate the gas flow rate. It will provide visual feed rate indication and also a 4-20mA output in which the current represents chemical feed rate based on float position.
2. The remote meter shall be suitable for wall mounting or cabinet mounting. It shall be provided with both rear and right side ½" NPT threaded inlet and outlet ports.
3. This gas flow meter shall be equipped with a PVDF control valve for manual feed rate adjustment.
4. Flow meter tubes shall indicate flow rates up to 500 pounds per day (10 kg/hr) and down to a minimum of 1/20 of the maximum value.
5. The 4-20mA output signal shall be accurate to within 5% of full scale.
6. The 4-20mA output signal shall be based on a magnet encapsulated in the PTFE float and 20 Hall Effect sensors mounted on a circuit board parallel to the flow tube. The circuit board shall be sealed inside the remote meter base.
7. The circuit board must be powered using a 12 to 24 VDC external power source connected on two dedicated wires. The circuit board shall output a 4-20mA signal based on float position on two dedicated wires. Therefore, there shall be four wires connected to the circuit board.