**Electromagnetic Flow Meter Specifications**

* 1. Electromagnetic flow meter
     + 1. The liquid flow meter shall be AMF Series electromagnetic induction type, as manufactured by Armstrong International.
       2. The flow meter will measure volumetric flowrates of conductive liquid mediums without internal moving parts and no pressure loss and be available in sizes ½” - 80”.
       3. Flow meter will comprise of a flanged tube sensor body complete with integral LCD display -or- remote mount display.
       4. Flow meter sensor body will be standard Class IP65 (outdoor) and comprise of:
          1. Stainless steel inner tubelined with PTFE (standard), rubber, Polyurethane, PFA.
          2. Epoxy coated carbon steel (standard) or optional stainless-steel outer tube.
          3. ASME ANSI Class 150# or 300# flanged pipe connections.
          4. 316SS (standard), Hastelloy B or C, Titanium, or Tantalum electrodes
          5. Standard IP65 (outdoor) integral junction box on sensor body or optional IP68 (submersible) integral junction box on sensor body (for remote mount).
       5. Integral display unit will have a 2-line LCD backlit, mounted in a Class IP65 (outdoor) housing complete with the following:

-OR-

Remote mount display unit will have a 2-line LCD backlit, mounted in a Class IP65 (outdoor) enclosure box complete with the following:

* + - * 1. 16 – 32 VDC -or- 85 – 250 VDC input power.
        2. Pulse & 4-20 mA, Pulse 4-20 mA & MODBUS*,* HART*,* BACNETMSTP/IP outputs
        3. Display of instantaneous flow, total flow and alarm.
        4. Built-in totalizers, forward flow, reverse flow and net.
      1. Flow meter will be capable of the following:
         1. Accuracy of ±0.5% of reading with repeatability of 0.2%, .3% accuracy optional.
         2. Operational measuring range of -39 to 39 ft/sec.
         3. Measuring liquid medium conductivity of ≥ 5µs/cm.
         4. Capable of bi-directional flow measurement.
         5. Operational with minimum 5D upstream, 2D downstream straight runs.
         6. Optional BTU measurement with 4 wire, platinum, 1000 ohm RTD’s that are matched to .15 deg F with 316 SS thermowells.
      2. Flow meter parameters will be factory pre-configured.
      3. Flowmeters will be wet calibrated at factory complete with certificate of calibration.
      4. Flowmeter will be complete with a 2 (two) year warranty.