

ROSEMOUNT SPECIFICATIONS

Model 8711 Magnetic Flowmeter

1. EQUIPMENT DESCRIPTION

- A dc powered, wafer-style magnetic flowmeter capable of monitoring liquids with a conductivity of 5 microsiemens/cm (5 micromhos/cm) or greater.

2. REFERENCES

- Material supplied under this specification shall be in conformance with:
 - National Electrical Manufacturer's Association (NEMA) standard number ICS6, "Enclosure for industrial controls and systems," 4X.
 - Factory Mutual (FM), Canadian Standards Association (CSA) and KEMA/CENELEC standards.
- Manufacturer must be certified as meeting the requirements of ISO 9001.

3. ENVIRONMENTAL CONDITIONS

- The instrument selected shall be suitable for the following conditions:
 - Humidity: 0 to 95% relative humidity up to 120° F (49° C) under non-condensing conditions.
 - Vibration Effect: Meets IEC Pipeline Installation Conditions.

4. PROCESS CONDITIONS

- The flowtube shall be capable of operating at the following process conditions as a minimum:
 - Temperature**
 - ETFE Tefzel[®] Lining (0.5- to 8-inches) -20 to 300° F (-29 to 149° C).
 - ETFE Tefzel[®] Lining (0.15- to 0.30-inches) -20 to 200° F (-29 to 93° C).
 - Conductivity**
 - Process liquid must have a conductivity of 5 microsiemens/cm (5 micromhos/cm) or greater. This excludes the effect of interconnecting cable length in remote transmitter locations.
 - Pressure Limits**
 - Consult factory.
 - Vacuum Limits**
 - ETFE Tefzel Lining (0.5- to 8-inches only): Full vacuum to maximum material temperature limits.
 - Mounting Position Effect**
 - None when installation ensures flowtube remains full.

5. ELECTRICAL

- Flowtube shall be certified for use in hazardous areas by a recognized authority, such as Factory Mutual (FM).
- Electrical connections shall be ¾–14 NPT conduit threads.

6. POWER SUPPLY

- Power will be supplied to the flowtube by transmitter only. Integral mount transmitters will be factory wired.

7. LINE SIZES

- Flowtubes shall be available in the following line sizes: 0.5- to 8-inches.

8. OPTIONS

- The following options shall be available:
 - Grounding rings
 - Grounding electrode

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