The Series IEF Insertion Electromagnetic Flow Transmitter is an adjustable insertion flowmeter featuring electromagnetic technology that accurately and reliably measures fluid velocity in addition to providing several continuous signal outputs. This series is specifically designed to offer superior performance paired with simple installation and use. One unit is adjustable to fit pipe sizes from 4” to 36” (102 to 914 mm), and offers several output options including selectable BACnet MS/TP or Modbus® RTU communications protocol over 2-wire RS-485 in addition to the standard analog, frequency and alarm outputs.

**APPLICATIONS**
- Mining
- Wastewater
- Chemical processing
- Ground water remediation

**SPECIFICATIONS**
- **Service:** Compatible clean or dirty non-foaming, conductive liquids.
- **Range:** 0 to 20 ft/s (0 to 6 m/s).
- **Wetted Materials:** Body shaft/fitting: 316 SS; Electrode cap: Polymer/Polytetrafluoroethylene; O-ring: Silicon.
- **Accuracy:** High accuracy units: ±0.5% of reading at calibrated velocity; ±1% of reading from 2 to 20 ft/s (0.6 to 6 m/s); ±0.02 ft/s (±0.006 m/s) at < 2 ft/s (0.6 m/s); Standard accuracy units: ±1% FS.
- **Temperature Limits:** Ambient: -20°F to 160°F (-29 to 71°C); Process: 15 to 250°F (-9 to 121°C); Storage: -40 to 185°F (-40 to 85°C).
- **Process Connection:** 1’ NPT or BSPT with accessory full port ball valve options.
- **Pressure Limits:** 400 psi (27.6 bar) at 100°F (37.8°C).
- **Outputs:**
  - (1) Analog: 4-20 mA, 0-5 V, 0-10 V or 2-10 V (display selectable);
  - (1) Pulse/Frequency: 0-15 V peak pulse, 0 to 500 Hz or scalable pulse output (display selectable);
  - (1) Alarm: (1) Empty pipe detection or minimum/maximum velocity, (display selectable);
  - (1) Reverse flow output indication.
- **Power Requirements:** 12-42.4 VDC, 25 A at 24 VDC; 12-36 VAC.

**ACCESSORIES**
- **Model:** A-IEF-CBL-50
- **Description:** Plenum rated cable 50 ft (15.2 m)
- **Model:** A-IEF-DSP
- **Description:** Setup display
- **Model:** A-IEF-KIT
- **Description:** Setup kit (includes setup display, thickness gauge and measuring tape), and universal power adapter
- **Model:** A-IEF-PA
- **Description:** AC wall adaptor
- **Model:** A-IEF-VLV-BR
- **Description:** 1-1/4” full port isolation valve brass kit**
- **Model:** A-IEF-VLV-SS
- **Description:** 1-1/4” full port isolation valve 316 SS kit

Brass fittings and pipe are not to be used with NSF Certified models.

**Notes:**
- For CC option, must provide completed configuration paperwork.
- For maximum performance select -LCD option or setup display accessory.

**MODEL CHART**

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<th>Example</th>
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<tbody>
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<td>IEF-HN-CND-LCD</td>
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**APPLICATIONS**

- **Boiler feed water**
- **Chilled water**
- **Open and closed loop condenser water**
- **Irrigation system**
- **Municipal water distribution**
- **Process and coolant flow**
- **Ground water remediation**
- **Chemical processing**
- **Pump protection**
- **Wastewater**
- **Minin**

**DEALER DESIGN AWARD**

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