Max Machinery Inc.

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(707) 433-7281

Model 272 Analog Transmitter

General Description:

The Model 272 Transmitter uses a stator coil to sense the motion of a rotating magnet contained within the flow meter. This rotation generates an AC voltage proportional to the flow rate through the meter. The electronic circuit in the transmitter then amplifies and converts the AC output to a 0 - 10 VDC signal which can be scaled to the flow range of the application.

The Model 272 Transmitters are designed to compensate for the non-uniform rotation of the Series 210 piston flow meters by means of a dynamic phasing adjustment. This adjustment can significantly reduce frequency modulation or ripple. For this reason all Model 272 transmitters require factory calibration and / or phasing to the flow meter.

For applications requiring bi-directional flow monitoring the Model 272 Transmitter can include an optional ±0-10 VDC output proportional to the flow rate. Bi-directional rate indication is available when the Model 272 is used in conjunction with the Max Model 117 rate indicator.

Specifications:

- **Output Signal:** Analog 0 to 10 VDC
  Unidirectional (standard): 0 to 10 VDC (unfiltered)
  Bi-directional (option): ± 0 to 10 VDC (unfiltered)
- **Power Supply requirements**: ±15 VDC, 30 mA
- **Ambient Operation Temperature Range:**
  -15°C to 65°C (-5°F to 150°F)
- **Metered Liquid Temperature Range**:
  -40°C to 130°C (-40°F to 265°F)

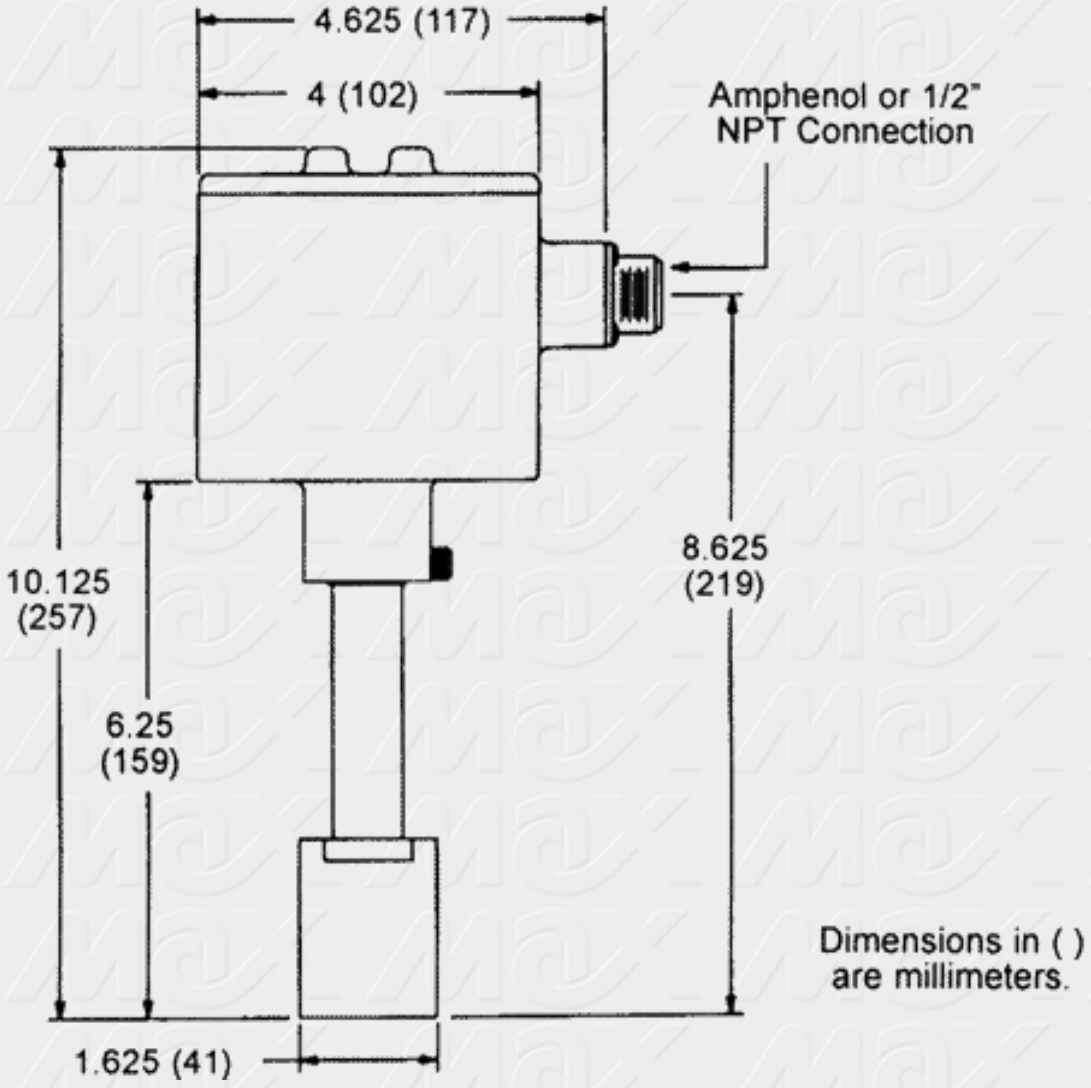
Features:

- 10 VDC output can be factory calibrated to user's flow specifications in any standard engineering units.

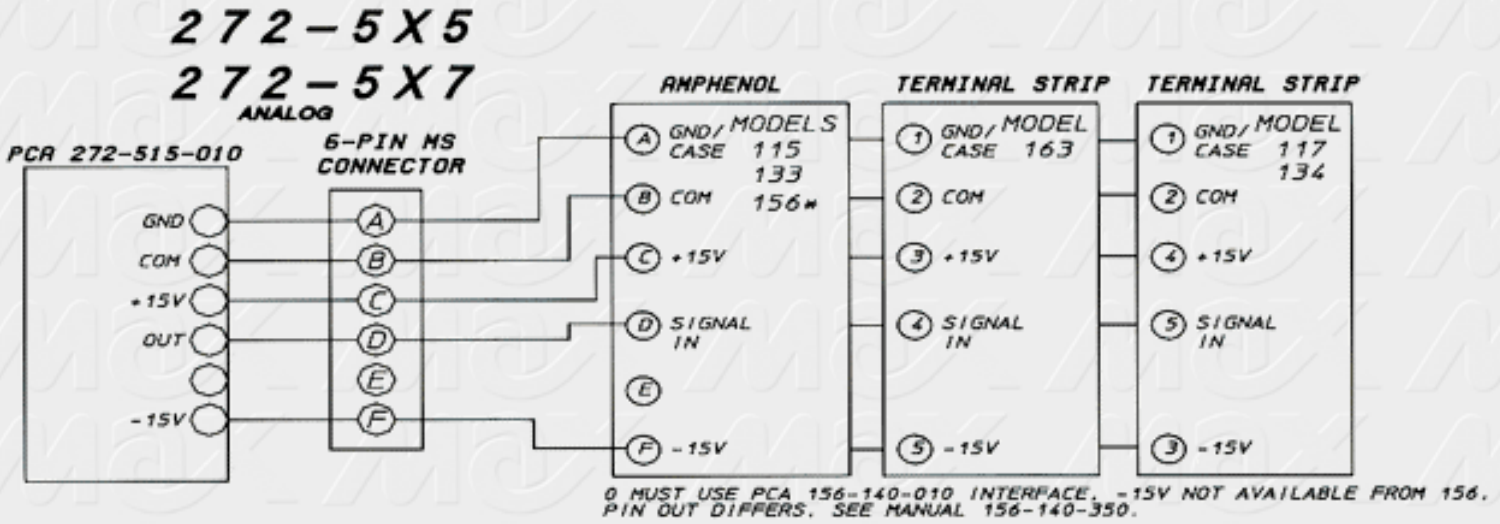
- Weather-tight and U.L Class 1, Division 1, Groups C & D rated explosion proof options. CSA certified.
- Adjustable damping network provides optimum noise filtration.
- Dynamic phasing adjustment - substantially reduces output modulations.
- Threaded flow meter connection and magnetic coupling allows for easy removal without contacting the liquid stream.
- ±0 - 10 VDC output option for bi-directional flow monitoring.

Download 272 manual (zipped)

PHYSICAL DIMENSIONS



Typical Wiring



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