



Max Machinery Inc.

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(707) 433-7281

Model 286 High Resolution Frequency Transmitter



General Description:

The 286 Series Transmitters employ a rotary variable differential transformer (RVDT) to convert the rotary motion of a typical Max flow meter into an electrical signal whose frequency is proportional to the flow meter RPM. A microprocessor is used to demodulate the flow meter's rotational variances electronically, placing the pulses evenly around the flow meter's rotation, and to provide one button, transmitter phasing.

The transmitter has two output formats: a user selectable 24 to 1000 square wave cycles per revolution or a two phase output of 1/2 of the number of cycles assigned to each phase. The single phase output has an anti-dither feature which makes it useful for low flow, zero velocity applications which may involve momentary reverse flow.

The memory circuit will hold up one half of a revolution of negative flow, outputting only the net forward flow.

The two phase output is useful for bi-directional applications. Both outputs are CMOS and TTL compatible and are generally able to drive at least 1000 feet of shielded cable.

The Model 286 flow meter transmitter requires 5 - 30 VDC power. No adjustments are required for different supply voltages.

Specifications:

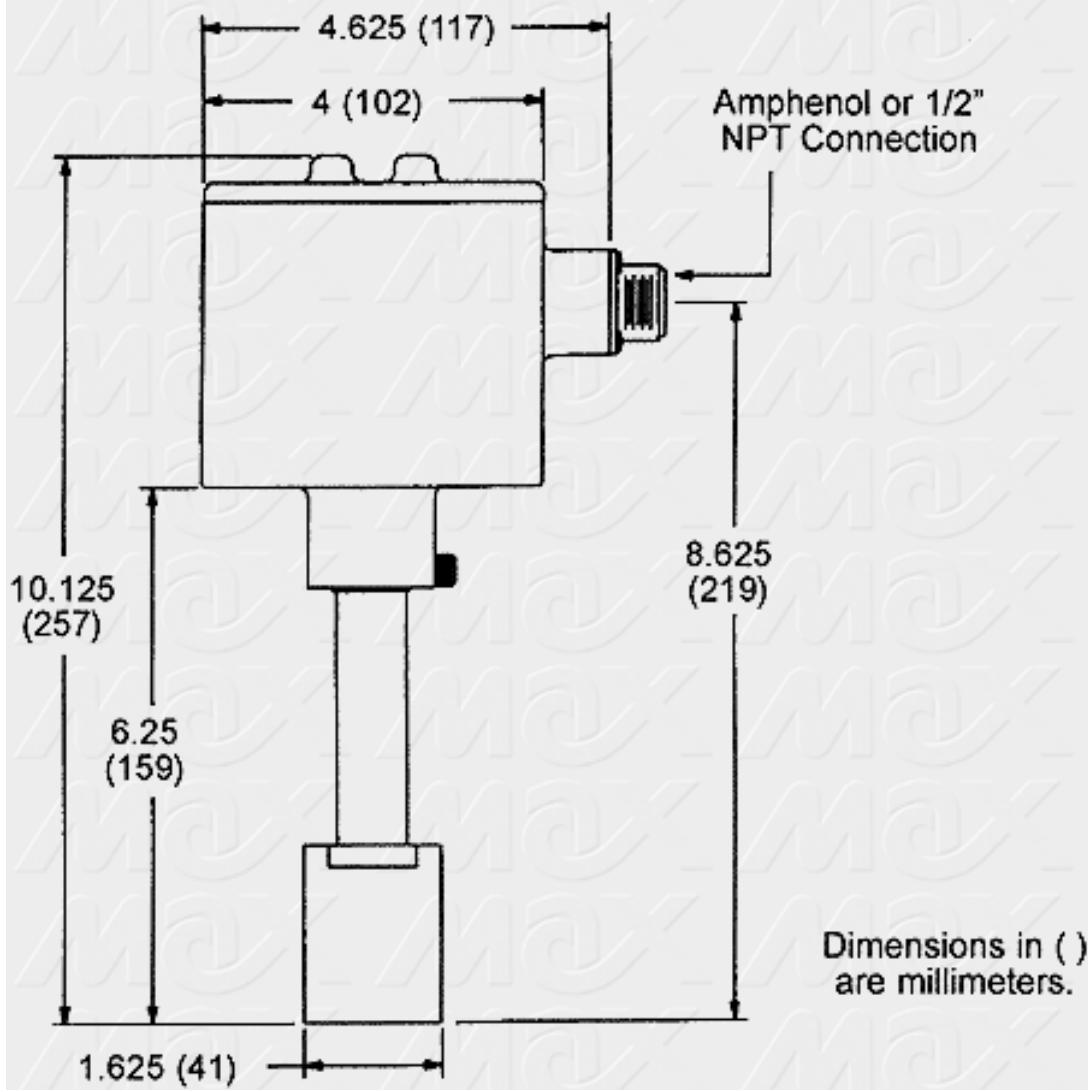
- **Output Signal:** 5 VDC (TTL & CMOS - compatible)
 - Square Wave: Select from eight steps between 24 and 1000 pulses/revolution
 - Quadrature: 1/2 of the pulses/revolution assigned to each phase
- **Power Supply Requirements:** 5 to 30 VDC, 15mA plus load
- **Ambient Operation Temperature Range:**
 - 40°C to 80°C (-40°F to 175°F)
- **Metered Liquid Temperature Range:**
 - 40°C to 130°C (- 40°F to 265°F)

Features:

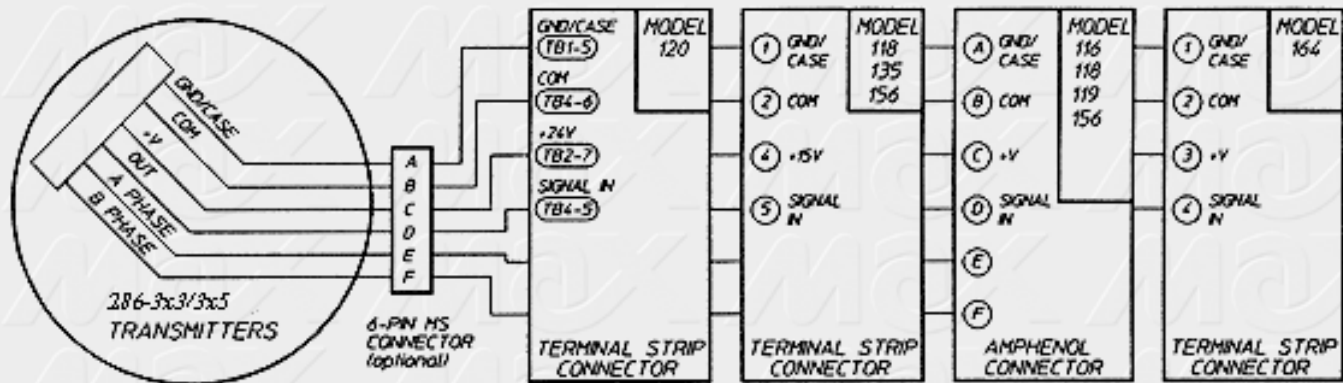
- 5 VDC square wave output is TTL and CMOS compatible.
- 2 phase quadrature output for bi-directional flow applications.
- Weather-tight and U.L Class 1, Division 1, Groups C & D rated explosion proof options. CSA certified.
- Electronic phasing adjustment virtually eliminates output modulation
- RVDT technology eliminates all mechanical drag, insuring smooth operation at low flows.

Download [286-3XX Manual](#) in PDF format

PHYSICAL DIMENSIONS



Typical Wiring



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