



Max Machinery Inc.

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(707) 433-7281

## Model 284 Frequency Transmitter

### General Description:

The 284-500 Series Transmitters are photo optic devices which convert the rotary motion of a typical Max flow meter into an electrical signal whose frequency is proportional to the flow meter RPM.

It has two output formats: a square wave of 100 cycles per revolution and a two phase output of 50 cycles per revolution. The single phase output has an anti-dither feature, which makes it useful for low flow, zero velocity applications which may involve momentary reverse flows. A memory circuit will hold up to 128 pulses 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 generally able to drive at least 1000 feet of shielded cable.

The Model 284-500 Series can operate from a voltage of 5 volts to 30 volts. A wide range, on-board regulator protects the circuitry from transient supply noise. No adjustments are required for different supply voltages.



### Specifications

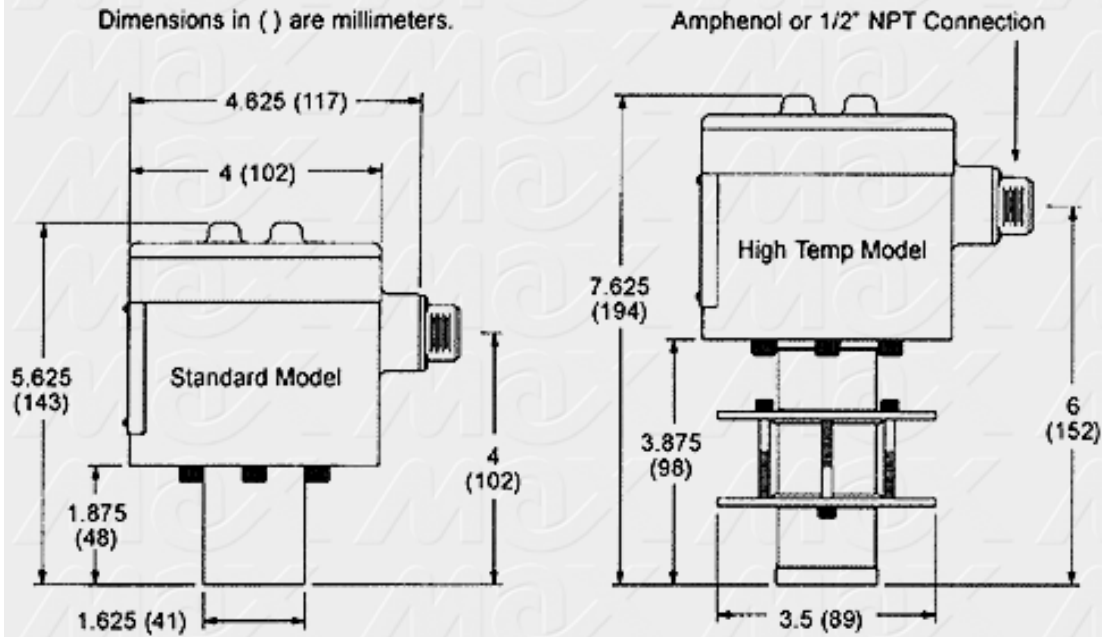
- **Type of Output:** 5VDC (TTL & CMOS-compatible)
  - Square Wave: 100 pulses/revolution
  - Quadrature: 50 pulses/revolution (each phase)
- **Power Supply Requirements:** 5-30 VDC, 15mA plus load
- **Ambient Operation Temperature Range:**
  - 15°C to 65°C ( + 5°F to 150°F)
- **Metered Liquid Temperature Range (At 30°C Ambient):**
  - 250°C to 288°C ( - 420°F to 550°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.
- Threaded flow meter connection and magnetic coupling allows for easy removal without contacting the liquid stream.

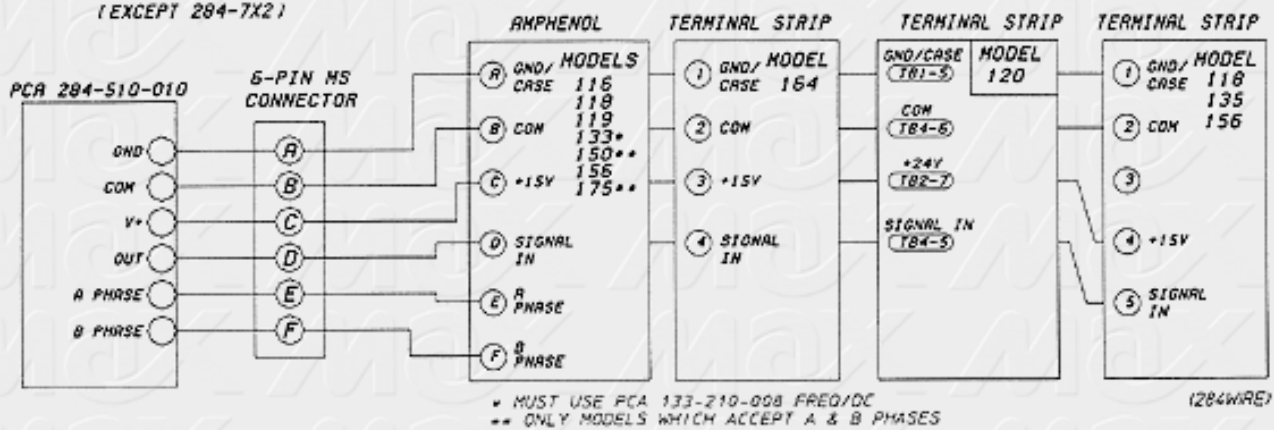
Download [284 Manual - Zipped](#) Acrobat Reader required to view downloaded files.

## PHYSICAL DIMENSIONS



## TYPICAL WIRING

## 284 TRANSMITTER (EXCEPT 284-7X2)



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