

NUFLO TMP-100 Turbine Meter Pulse Divider Circuit

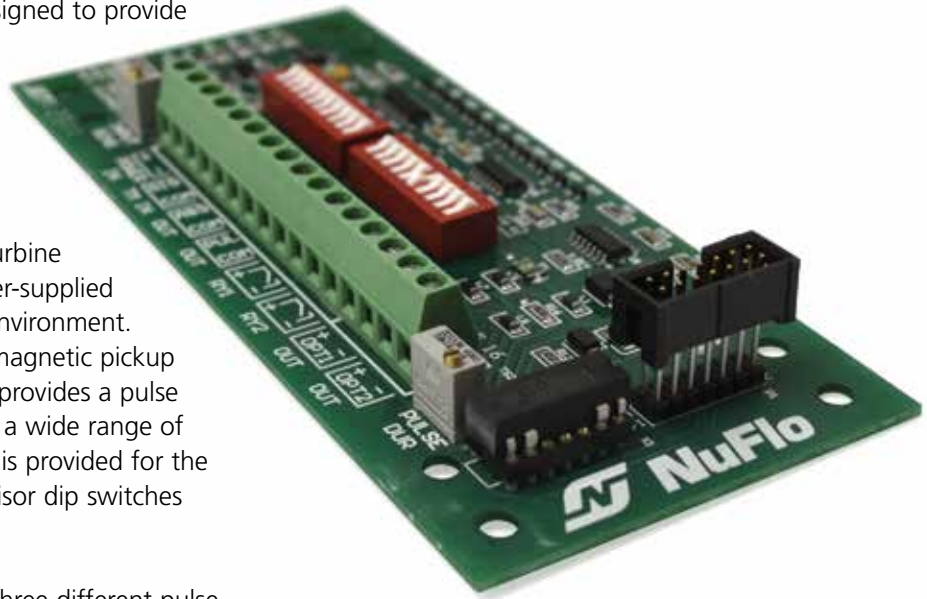
Cameron's NUFLO™ Model TMP-100 is designed to provide a pulse output representing a user-defined unit volume from a remote mounted turbine meter. This output may be interfaced to RTUs, totalizers or field computers.

The TMP-100 is specifically designed for turbine flow meters and is to be mounted in a user-supplied weatherproof enclosure or control room environment. The TMP-100 receives its signal from the magnetic pickup and with a divisor range of 1 to 524,287, provides a pulse output representing a unit of volume over a wide range of applications. An adjustable potentiometer is provided for the input signal sensitivity. The 19-position divisor dip switches make calibration extremely simple.

The pulse out duration is adjustable with three different pulse outputs available: dry contact relay, opto-isolated emitter collector output and non-isolated electronic pulse out.

Specifications

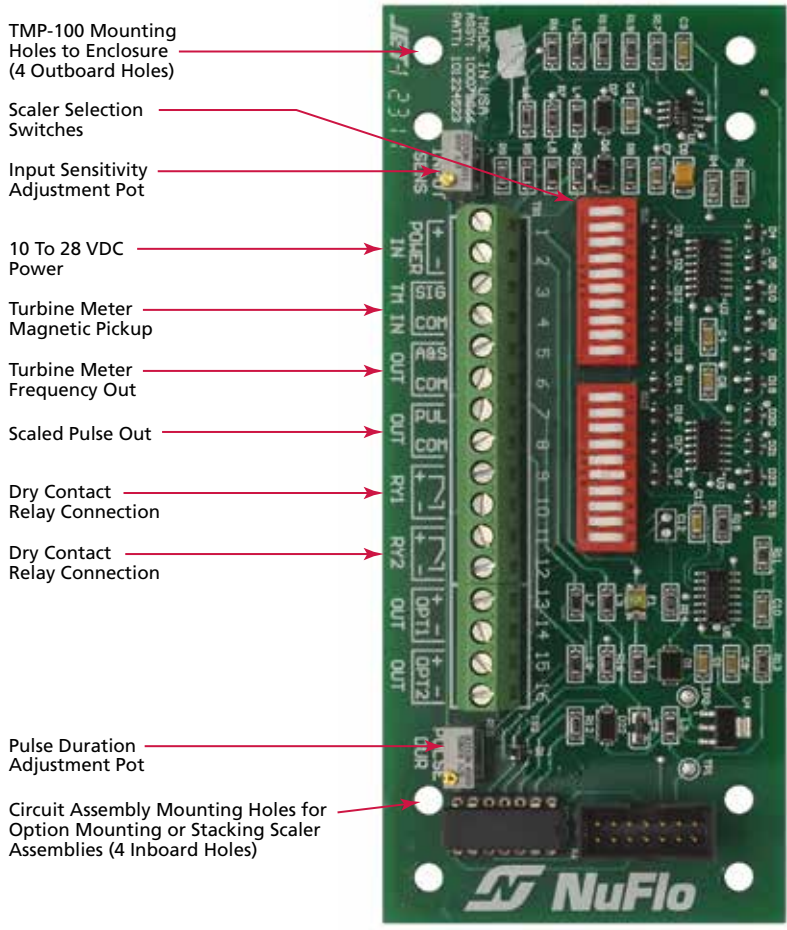
- Power Supply: 10 to 28 VDC, 2 mA current draw at rest
 - 12 mA during relay contact closure
 - 12 mA when opto-isolator open collector module is on
- Input Signal: 20 mV peak-to-peak – 10 V peak-to-peak
- Divisor: 1 – 524,287 (Set by 19 miniature dip switches)
- Operating Temperature: -20° F to 140° F (-28° C to 60° C)



Output Specifications

- Square wave output at 0 to 5 V logic level at turbine meter frequency. Load = 250 K ohm or larger. Maximum turbine meter frequency = 3000 Hz.
- Pulse output from divisor at 0 to 5 V logic level. Pulse direction is user-selectable by dip switch setting. Load = 250 K ohm or larger.
- Dry contact output 2 pole relay: .5 amps, 30 VDC, 10 watt maximum
- Opto-isolated open collector output: .1 amps, 30 VDC maximum
- Pulse output duration for all output types is adjustable from 60 ms to 800 ms.
 - Maximum pulse out rate is 15 Hz (8 Hz at 50% duty cycle) based on 60 ms pulse duration setting, and is lower for longer pulse duration settings.

TMP-100 Circuit Assembly



- TMP-100 Mounting Holes to Enclosure (4 Outboard Holes)
- Scaler Selection Switches
- Input Sensitivity Adjustment Pot
- 10 To 28 VDC Power
- Turbine Meter Magnetic Pickup
- Turbine Meter Frequency Out
- Scaled Pulse Out
- Dry Contact Relay Connection
- Dry Contact Relay Connection
- Pulse Duration Adjustment Pot
- Circuit Assembly Mounting Holes for Option Mounting or Stacking Scaler Assemblies (4 Inboard Holes)

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OTHER LOCATIONS

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- INDIA
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- UK
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www.c-a-m.com/measurement