

## + NUFLO TMP-100

## **Turbine Meter Pulse Divider Circuit**

Sensia's NUFLO™ Model TMP-100 is designed to provide a pulse output representing a userdefined 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

<b>Specifications</b>	
Power Supply	<ul> <li>+ 10 to 28 VDC, 2 mA current draw at rest</li> <li>+ 12 mA during relay contact closure</li> <li>+ 12 mA</li> </ul>
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	<ul> <li>+ Square wave output at 0 to 5 V logic level at turbine meter frequency.</li> <li>+ Load = 250 K ohm or larger. Maximum turbine meter frequency = 3000 Hz</li> <li>+ Pulse output from divisor at 0 to 5 V logic level</li> <li>+ Pulse direction is user-selectable by dip switch setting</li> <li>+ Load = 250 K ohm or larger</li> <li>+ Dry contact output 2 pole relay: <ul> <li>.5 amps, 30 VDC, 10 watt maximum</li> </ul> </li> <li>+ Opto-isolated open collector output: <ul> <li>.1 amps, 30 VDC maximum</li> <li>+ Pulse output duration for all output types is adjustable from 60 ms to 800 ms</li> <li>+ Maximum pulse out rate is 15 Hz</li> <li>(8 Hz at 50% duty cycle) based on 60 ms pulse duration setting, and is lower for longer pulse duration settings</li> </ul> </li> </ul>



## **TMP-100 CIRCUIT ASSEMBLY**





