# **SCADAMETRICS®**

# Milliamp-to-Pulse Converter Model MTP



Building or Factory Automation Controls





# Translates a 4-20 Milliamp Input Signal into a Totalizer-Compatible Pulse Output!

SCADAmetrics<sup>®</sup> is pleased to introduce a new member to its DINstrumentation<sup>™</sup> series – **Model MTP Milliamp-to-Pulse Converter!** 

This new electronic signal generator for water meters accepts a 4-20 milliamp output from a flow meter and converts to a dry contact pulse (per volume) output!

Certain flow meters, such as Venturi-type meters, may only feature a 4-20mA flow output. The addition of the **model MTP Milliamp-to-Pulse Converter** enables these meters to also produce a totalizer-compatible pulse signal. The totalizer signal can be utilized for SCADA system integration, reporting, and revenue purposes.

#### Key Features -

- Input: 4-20 mA
- Output: 0-20 Hz (Open-Collector, 50mA Max, 5-30V<sub>DC</sub>)
- Wide-Input Power Supply: 8-32 V<sub>DC</sub>
- 3-Port Isolation: Input, Output, Power Supply
- Isolation Voltage: 2500 V<sub>DC</sub> (1mA, 60s)
- Industrial Temperature Range: -45 to +85C
- 35mm Din-Rail Mount
- No Computer Setup Required!

### Wiring Diagram -



#### **Dimensions** -



Are you interested in how SCADAmetrics meter technology can help you more closely monitor the flow through your water meters? Give us a call! We'll be glad to discuss the details!

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#### **Engineering Specifications -**

Dimensions: Weight: Supply Voltage: Supply Power: Isolation:

Pulse Output Type: Closed-Contact Max Current: Open-Contact Min Voltage: Output Frequency @ 4mA: Output Frequency @ 20mA: 4-20mA Input Resistance:

Terminal Connections: Mounting Technique:

Temperature: Relative Humidity: Enclosure Rating: Manufacturing Location: Warranty: 3.11 x 4.20 x 0.98 inches (79 x 106.7 x 25 mm) 3.5 Ounces 8-32V<sub>DC</sub> 1.0W 2500V<sub>RMS</sub>

Solid-State, Open-Collector 50mA 5V 30V 0 Hz 20 Hz

Screw-Down Terminal Block, 12-26 AWG 35mm Din-Rail

-40C to 85C (-40°F to 185°F) 5% to 95%, Non-Condensing Built to IP40 Specifications, Not Rated for Submersion /Outdoor Use China 2 Years (see www.scadametrics.com for details)

#### **Example Flow Meter Configurations -**

100 Ohm

Gallon Registration Units			
Meter Size (in)	20mA Span (gpm)	Pulse Weight (Gallons/Pulse)	
5/8 - 1	120	0.1	
1.5 – 4	1,200	1	
6-16	12,000	10	
20+	120,000	100	

Cubic Foot Registration Units			
Meter Size (in)	20mA Span (ft <sup>3</sup> /min)	Pulse Weight (ft <sup>3</sup> /Pulse)	
5/8 – 1	12	0.01	
1.5 – 4	120	0.1	
6-16	1,200	1	
20+	12,000	10	

Cubic Meter Registration Units			
Meter Size (in)	20mA Span (Ipm)	Pulse Weight (m <sup>3</sup> /Pulse)	
5/8 – 1	1,200	0.001	
1.5 – 4	12,000	0.01	
6-16	120,000	0.1	
20+	1,200,000	1	

## Example Application 1 -

#### Connect a Venturi Flow Meter to an AMI System



#### Example Application 2 -

#### Connect a Venturi Flow Meter to a SCADA System and an AMI System

