



# MM7501

## DC INPUT INTEGRATING TOTALIZER PULSE OUTPUT TRANSMITTER

### FEATURES

- Provides an Output Pulse Rate Proportional to the DC Input
- 1 V or 1 mA Minimum Input Span
- Unlimited\* Choice of Input/Output Ranges
- Choice of Power Options
- 10 Year Warranty

### DESCRIPTION

The MM7501 is used, together with a counter, to integrate or totalize flow and other signals. Its output is a pulse rate proportional to a DC input. When totalized on a counter, the pulses indicate the total flow or other quantity being measured.

Typical input ranges are 4/20 mA, 10/50 mA, 0-1 V, 0-5 V, and 0-10 VDC. Other ranges are available down to minimum spans of 1 V or 1 mA DC.

The MM7501 includes a frequency scaler (binary pulse rate divider) which, together with wide-ranging zero and span controls, provides a 4096:1 range of output pulse rate adjustment. This allows the output to be scaled in engineering units (one pulse equals 1,000 gallons, for example). The output may be an spdt relay, a voltage pulse suitable for driving a 12 V electromechanical counter or an open collector output.

All Wilkerson products are designed with RFI filters and lightning protection to reduce susceptibility to electrical noise and damage by lightning. An integrating DC to frequency converter generates the basic pulse rate.

### TYPICAL APPLICATIONS

Totalizing flow, BTU, or any other quantity that can be represented in quantity per unit time.

### SPECIFICATIONS

#### INPUT RANGE

Voltage  
select any range from  
0 to 10 V max (min span 1 V)  
Typical inputs:  
0-1 V, 0-5 V, 0-10 V

Current  
select any range from  
0 to 100 mA max  
(min span 1 mA)  
Typical inputs:  
4/20 mA or 10/50 mA

#### INPUT IMPEDANCE

Voltage  
1 megohm

Current  
2.0 V drop typical,  
others available

#### OUTPUT RANGE

7 pph min to 8 pps max  
@ 20 mA input  
(user adjustable:  
1 pps max with relay)

#### TYPE OUTPUT

Relay (standard)  
spdt, 1 A contact

Transistor (Option OC)  
open-collector npn transistor,  
sink 0.5 A, 24 V max

Pulse (Option V)  
12V  
60 msec pulse width  
others available

#### ACCURACY

±0.1% of span

#### LINEARITY

±0.1% of span

#### COMMON MODE REJECTION

120 dB, DC to 60 Hz

#### OPERATING TEMPERATURE

14°F to 140°F/-10°C to 60°C

#### TEMPERATURE STABILITY

±0.04% of span/°C max

#### POWER

115 VAC ±10%, 50/60 Hz  
(2.5 W max)

230 VAC ±10%, 50/60 Hz  
(2.5 W max)

(DC Power Option)  
24 VDC (limits 21-32 VDC)  
12 VDC (limits 10-16 VDC)

Isolation, DC power supply to  
input common: 10 megohms

\* Within specified range limits.

**ORDERING INFORMATION**

**POWER**

- 115 VAC, 50/60 Hz Power
- 230 VAC, 50/60 Hz Power
- 12 VDC Power, Transformer Isolated
- 24 VDC Power, Transformer Isolated

**INPUT**

**Select Units**

- VDC    mADC

**Enter Input**

Zero Scale

Full Scale

**OUTPUT**

**Select Output Units**

- PPS    PPM    PPH

**Enter Output**

Zero Scale

Full Scale

**Select Type Output**

- Relay (SPDT)
- O.C. (NPN)/Pulse

**OPTIONS**

- Conformal Coating

**TAGS**

**Specify Tag Numbers**

Tag number is typed on product label at no charge.

**Enter Tag Number(s)**

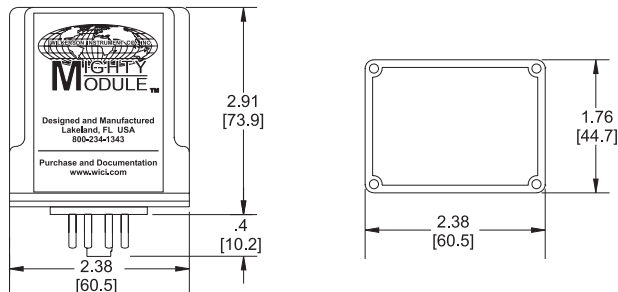
**ACCESSORIES**

**MM7501**

DR1	DIN-Rail, 35 mm Symmetrical, 39 inches (1 meter)	QTY _____
MP008	Plastic Socket,, 8-pin Panel Mount or PVC Snap Track	QTY _____
TRK48	PVC Snap-track, 4 ft. (MP008, MP011 & DMP8500)	QTY _____
DMP008	DIN-Rail Mounting Socket, 8-pin, 35 mm Symmetrical Rail	QTY _____
CLP1	Holddown Assembly for MP008 and MP011	QTY _____
HKB-HK2D-8	Explosion-Proof Housing with MP008 Installed	QTY _____

**DIMENSIONS**

Inches [mm]



**CONNECTIONS**

PIN 1	AC L1 or DC +
PIN 2	No Connection
PIN 3	AC L2 or DC -
PIN 4	Input +
PIN 5	Input -
PIN 6	Relay NC
PIN 7	Relay C
PIN 8	Relay NO


  
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