

WATT TRANSDUCERS

DC SHUNT WATT TRANSDUCER

MODEL MT

FEATURES

The MT Series of Transducers were designed as a Watt Transducer capable of multiplying two individual DC voltage signals to provide an output directly proportional to the instantaneous product of the two input signals.

One input is dedicated to a low level voltage, (a 50 or 100mV shunt) and the other voltage input is normally in the range of 1 to 750V dc.

Each input is isolated from each other and the output by 1000V dc. A model selection table is provided below with a list of standard inputs and outputs.



Model MT

MODEL SELECTION

| MT- | INPUT ONE (SHUNT) | INPUT TWO (VOLTAGE) | OUTPUT | INST PWR | |
|-----|-------------------|---------------------|--------|----------|---------|
| (1) | =50mV | (01) | =1V | (B) | =1mA |
| (2) | =100mV | (02) | =5V | (D) | =10V |
| (3) | =1V | (03) | =10V | (E) | =4-20mA |
| (4) | =5V | (04) | =25V | (EA) | =0-20mA |
| (5) | =10V | (05) | =50V | | |
| | | (06) | =100V | | |
| | | (07) | =150V | | |
| | | (08) | =250V | | |
| | | (09) | =300V | | |
| | | (10) | =400V | | |
| | | (11) | =500V | | |
| | | (12) | =750V | | |

ORDERING INFORMATION
 Example: Input #1 of 50 mVdc,
 Input #2 of 100Vdc,
 with an output of 0-1mA.
MT-1-06B

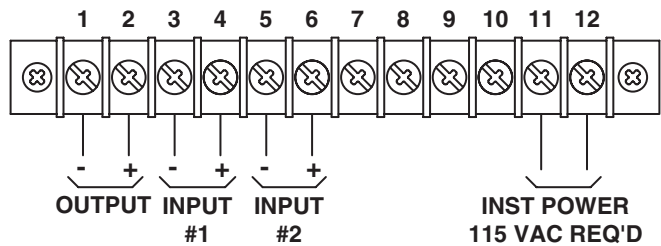
(SHUNTS AVAILABLE - SEE PAGE 152)

MODEL MT SPECIFICATIONS

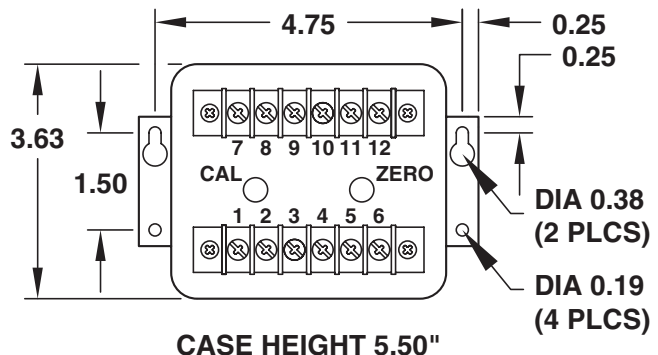
INPUT
 Input One (Shunt) See Table
 Burden > 100K Ohms
 Overrange 2 X Rated Input
 Input Two (Voltage) See Table
 Burden (To 100V) 100K Ohms
 (150V to 300V) 500K Ohms
 (400V to 750V) 1M Ohms
 Overrange 2 X F.S. or 600Vac/850Vdc max.
 Frequency Standard DC
 Dielectric Test Inputs to Output 1000Vdc
 Inputs/Output to Inst. pwr. 1500Vac
 Instrument Power 90-135Vac, 50-400Hz, 7VA
 "G" Option 180-270V, 50-400Hz

OUTPUT
ACCURACY & LINEARITY + 0.5% F.S.
 Including Set point, Repeatability, Voltage & Current Linearity
 Load on Output 1mA 0-10K Ohms
 10V >2K Ohms
 20mA 0-500 Ohms
 Response Time to 90% 10 milliseconds
 Ripple +1% F.S.
 Temperature Effects (-20°C to +65°C) +.02%/°C
 Weight 2.2 Lbs.

CONNECTIONS



DIMENSIONS



All Dimensions In Inches

FLEX-CORE®
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