

**VMT, VMT - TRMS**

MECO AC Voltage Transducer measures AC Voltage and converts it to an industry standard output signal which is directly proportional to the measured input. These Transducers provide an output which is load independent and isolated from the input. The output can be connected to Controllers, Data-Loggers, PLC's, Analog / Digital Indicators, Recorders for display, analysis or control. They are ideal for SCADA, Energy Management, Telemetry for Remote, Local as well as Central Monitoring Systems.

Type	DIN Series	Accuracy
Current - Average	VMT	±0.5% of Span
Current - TRMS	VMT - TRMS	

AC Input	
Input Ranges	0 - 63.5 V 0 - 110 V 0 - 230 V 0 - 300 V 0 - 440 V 0 - 500 V
Measuring Range	0 - 1.2Un
Overload (continuous)	1.2 x Un
Burden	< Un x 6mA
	< 6 VA for Self Powered

DC Output			
Current		Voltage	
Output	Load	Output	Load
0-1 mA	0-10 KΩ	0-1 V	> 1 kΩ
0-5 mA	0-2 KΩ	0-5 V	> 5 kΩ
0-10 mA	0-1 KΩ	1-5 V	
2-10 mA		0-10 V	>10 kΩ
0-20 mA	*0-500 Ω	2-10 V	
4-20 mA			

Auxiliary Power Supply		
	Tolerance	Burden
SMPS - HV	85 - 265V AC / DC	< 2 VA
SMPS - LV	19 - 90V AC / DC	
Self Powered	Max. Variation of ± 20% allowed in Input Voltage	Refer Input Burden
AC Linear Power Supply	230V AC ± 20 %	< 4 VA

**Optional**

- Expanded or Suppressed Input Ranges also available. Example : 0 - 0.8 - 1.2 Un
- Above Input Ranges with suitable PTR also available.
- Other input ranges available subject to technical feasibility

**Optional**

- Dual Non-Isolated Outputs
- Expanded or Suppressed Output Example : 4 - 6 - 20 mA for 0 - 0.8 - 1.2 Un
- Dual Symmetrical & Asymmetrical Outputs
- Other output ranges available subject to technical feasibility
- \*0-600 Ω / 0-750 Ω on Request

**Optional**

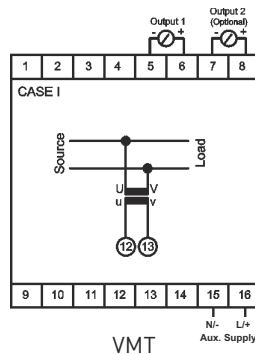
- Other Auxiliary Power Supplies available subject to technical feasibility

**Dimension**

**DIN Series** : ● Case Size I

**Note** : ● For Details refer General & Technical Specifications Page

**Connection Diagram**



## Specifications

<b>Accuracy</b>	± 0.5% of Span (standard) Others on request (optional)	<b>Warm Up Time</b>	20 min. (approx.)
<b>Accuracy Range</b>	0 to 120%	<b>Dielectric Strength</b>	2.5kV at 50 Hz for 1 min.(Standard) 4kV (Optional), across Casing - Input/Output/Auxiliary Input - Output Input - Auxiliary Output - Auxiliary
<b>Zero Adjustment</b>	± 2% of Span (min.)		
<b>Span Adjustment</b>	± 10% of Span (min.)		
<b>Response Time</b>	< 250 ms for 0 to 90% of Output < 1 s for 0 to 90% of Output for PF		
<b>Output Ripple</b>	< 0.5% of Full Scale	<b>Impulse Test</b>	5kV, 1.2 / 50 μS
<b>Compliance Voltage</b>	12VDC (max.)	<b>Casing</b>	DIN Series  Flame Retardant, Polycarbonate (UL 94V-0) Self Extinguishing, Non Drip, DIN Rail cum Wall Mounting Casing
<b>Overload - Continuous</b>	Voltage : 1.2 x Un Current : 2 x In		
<b>Overload - Short Duration</b> ( 1 sec.)	Voltage : 2 x Un Current : 20 x In	<b>Applicable Standards</b>	IEC 688 / EN 60688  EN 61010-1  EN 61326-1  IS12784 (Part-1)1989  Electrical Measuring Transducers for converting AC Electrical Quantities to Analog or Digital Signals  Safety requirements for Electrical Equipment for Measurement Control & Laboratory use  Electrical Equipment for Measurement Control & Laboratory use - EMC requirements  Electrical Measuring Transducers for converting AC Electrical Quantities into DC Electrical Quantities : General Purpose Transducer
<b>Max. Open Circuit Voltage</b>	< 30VDC		
<b>Stability</b>	± 0.25% Per Annum, Non Cumulative		
<b>Environmental Conditions</b>	As per IEC 688 User Group II		
	Operating Temperature 0 to 55°C, RH < 95% (non condensing)		
	Storage Temperature -20 to 70°C, RH < 95% (non condensing)		
Calibrated At	27°C ± 5°C		
<b>Temperature Coefficient</b>	0.02% / °C		
<b>Isolation</b>	Complete (Input/Output/Auxiliary/Case)		
<b>Insulation Resistance</b>	>100MΩ at 500VDC		
<b>Self Powered (optional)</b>	Max.Variation of ± 20% in input voltage		

## Ordering Information

Model, Input Range, Input Voltage, Input Current, PTR, CTR, Frequency, Auxiliary Supply, Output 1, Output 2 & Optionals

## Dimensions (in mm)

