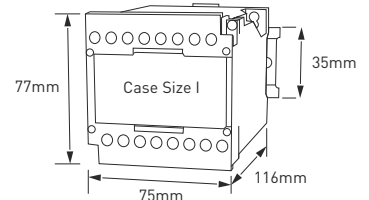


VMT, VMT - TRMS



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
Voltage - Average	VMT	±0.5% of Span
Voltage - TRMS	VMT - TRMS	

AC Input		DC Output				Auxiliary Power Supply		
Input Ranges	0 - 63.5 V	Current		Voltage		Tolerance		Burden
	0 - 110 V	Output	Load	Output	Load	SMPS - HV	85 - 265V AC / DC	< 2 VA
	0 - 230 V	0-1 mA	0-10 KΩ	0-1 V	> 1 kΩ			
	0 - 300 V	0-5 mA	0-2 KΩ	0-5 V	> 5 kΩ			
	0 - 440 V	0-10 mA	0-1 KΩ	1-5 V				
	0 - 500 V	2-10 mA		0-10 V	> 10 kΩ			
Measuring Range	0 - 1.2Un	0-20 mA	*0-500 Ω	2-10 V				
Overload (continuous)	1.2 x Un	4-20 mA						
Burden	< Un x 6mA							
	< 6 VA for Self Powered							

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

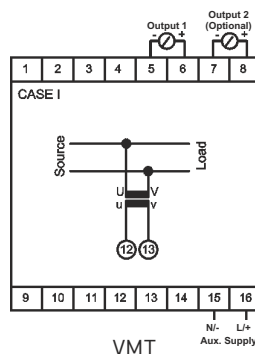
- Other Auxiliary Power Supplies available subject to technical feasibility

Dimension

DIN Series : ■ Case Size I

Note : ■ For Details refer General & Technical Specifications Page

Connection Diagram



Specifications

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

