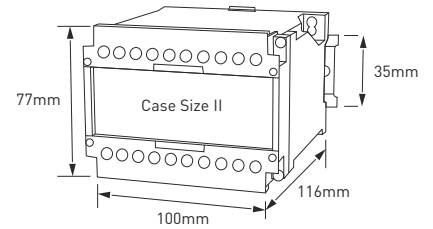
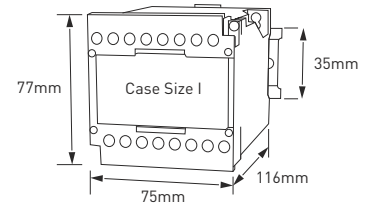




CMT, CMT - TRMS



MECO AC Current Transducers measure AC Current 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	CMT	±0.5% of Span
Current - TRMS	CMT - TRMS	

AC Input		DC Output ^{*1,*2}				Auxiliary Power Supply			
Input Ranges	0 - 5A (Direct) 0 - 1A (Direct) CTR / 5A CTR / 1A	Current		Voltage		Tolerance		Burden	
Measuring Range	0 - 1.2 In	Output	Load	Output	Load	SMPS - HV	85 - 265V AC / DC	< 2 VA	
Overload (continuous)	2 x In	0-1 mA	0-10 KΩ	0-1 V	> 1 kΩ	SMPS - LV	19 - 90V AC / DC		
Burden	<0.5 VA *2<6 VA for Self Powered	0-5 mA	0-2 KΩ	0-5 V	> 5 kΩ	Self ^{*1} Powered	*1 For Input 1A & 5A AC, Output 0-10 or 0-20mA DC Available Only	Refer Input Burden	
		0-10 mA	0-1 KΩ	1-5 V	>10 kΩ	AC Linear Power Supply	230V AC ± 20 %	< 4 VA	
		2-10 mA		0-10 V					
		0-20 mA	*0-500 Ω	2-10 V					
		4-20 mA							

Optional

- Expanded or Suppressed Input Ranges
Example : 0 - 0.8 - 1.2 In
- Other input ranges available subject to technical feasibility

Optional

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

Optional

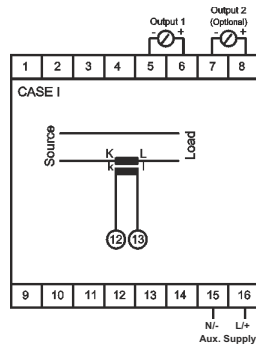
- Other Auxiliary Power Supplies available subject to technical feasibility

Dimension

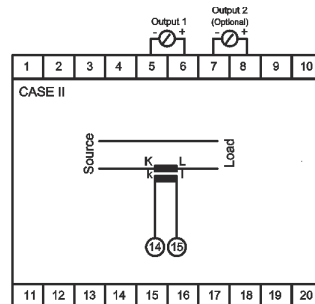
DIN Series : ● Case Size II for Self Powered ● Case Size I for others

Note : ● For Details refer General & Technical Specifications Page

Connection Diagram



CMT



CMT - Self Powered

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.)		
Span Adjustment	± 10% of Span (min.)		
Response Time	< 250 ms for 0 to 90% of Output < 1 s for 0 to 90% of Output for PF		
Output Ripple	< 0.5% of Full Scale	Impulse Test	5kV, 1.2 / 50 μS
Compliance Voltage	12VDC (max.)	Casing	DIN Series Flame Retardant, Polycarbonate (UL 94V-0) Self Extinguishing, Non Drip, DIN Rail cum Wall Mounting Casing
Overload - Continuous	Voltage : 1.2 x Un Current : 2 x In		
Overload - Short Duration (1 sec.)	Voltage : 2 x Un Current : 20 x In	Applicable Standards	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
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)

