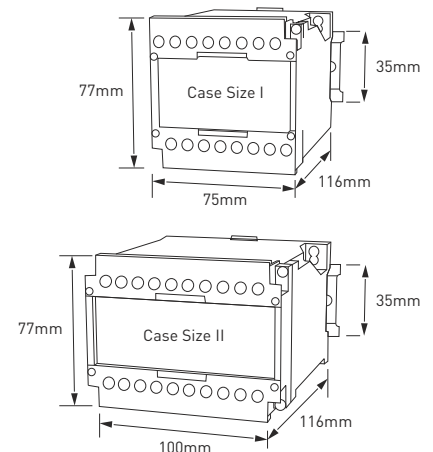




**CMT, CMT - TRMS**



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	*0-500Ω	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
- \*0-600Ω / 0-750Ω on Request

#### Optional

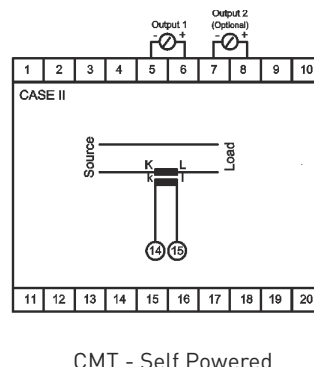
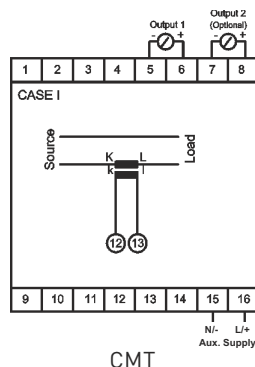
- Other Auxiliary Power Supplies available subject to technical feasibility

#### Dimension

**DIN Series** : ■ Case Size II for Self Powered ■ Case Size I for others

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

#### Connection Diagram



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

