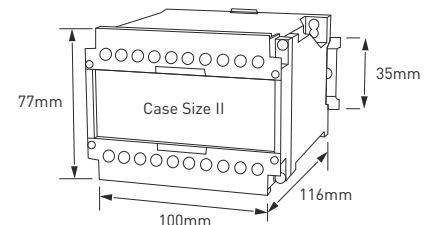




FT



MECO Frequency Transducer measures Power Frequency over a specified Frequency Range 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.

<b>Model : FT (DIN Series)</b>	<b>Accuracy : <math>\pm 0.5\%</math> of Span</b>
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AC Input		DC Output				Auxiliary Power Supply		
Input Ranges	45 - 55 Hz	Current		Voltage		Tolerance ( ± 20 % )		Burden
	45 - 65 Hz	Output	Load	Output	Load	AC Linear Power Supply	110 V	< 4 VA
	55 - 65 Hz					0-1 mA	0-10 KΩ	
Input Voltage	63.5/110/230/440 V (any one only)	0-5 mA	0-2 KΩ	0-5 V	> 5 kΩ	DC	24 V	
Measuring Range	0.8 - 1.2 Un	0-10 mA	0-1 KΩ	1-5 V			48 V	
Overload (continuous)	1.2 x Un	2-10 mA		0-10 V	> 10 kΩ		110 V	
Burden	< Un x 5.5mA	0-20 mA	0-500Ω	2-10 V			> 10 kΩ	
	< 6 VA for Self Powered	4-20 mA						

#### Optional

- Above Input Ranges with suitable PTR also available
- Other input ranges available subject to technical feasibility

#### Optional

- Dual Non-Isolated Outputs
- Dual Symmetrical & Asymmetrical Outputs
- Other output ranges available subject to technical feasibility

#### Optional

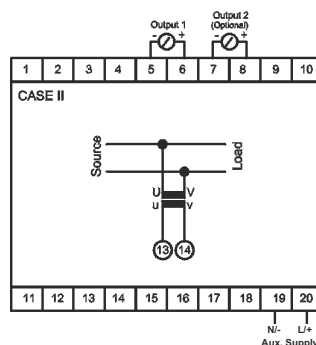
- Other Auxiliary Power Supplies available subject to technical feasibility

#### Dimension

**DIN Series** : ■ Case Size II

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

#### Connection Diagram



FT

## 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)

