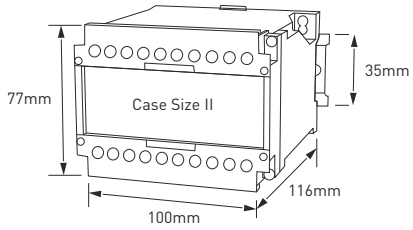
CE

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, Telemetering for Remote, Local as well as Central Monitoring Systems.

Model : FT (DIN Series)	**Accuracy :** ±0.5% of Span

AC Input	
Input Ranges	45 - 55 Hz 45 - 65 Hz 55 - 65 Hz
Input Voltage	63.5/110/230/440 V (any one only)
Measuring Range	0.8 - 1.2 Un
Overload (continuous)	1.2 x Un
Burden	< Un x 5.5mA
	< 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 (± 20 %)		Burden
AC Linear Power Supply	110 V	< 4 VA
	230 V	
DC	24 V	
	48 V	
	110 V	
	220 V	
Self Powered	Max. Variation of ± 20% allowed in Input Voltage	Refer Input Burden

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

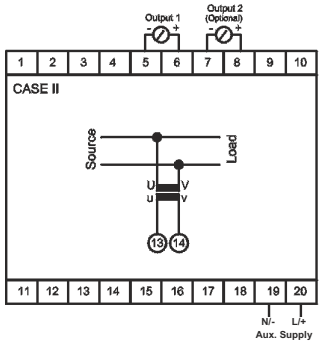
Optional
- Other Auxiliary Power Supplies available subject to technical feasibility

Dimension

DIN Series : ● Case Size II

Note : ● For Details refer General & Technical Specifications Page

Connection Diagram



FT

Specifications

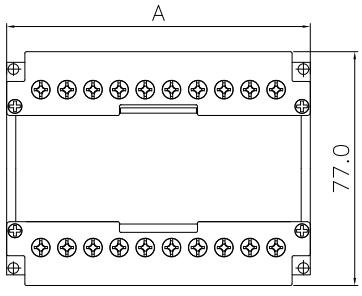
Accuracy	± 0.5% of Span (standard) Others on request (optional)
Accuracy Range	0 to 120%
Zero Adjustment	± 2% of Span (min.)
Span Adjustment	± 10% of Span (min.)
Response Time	< 250 ms for 0 to 90% of Output < 1 s for 0 to 90% of Output for PF
Output Ripple	< 0.5% of Full Scale
Compliance Voltage	12VDC (max.)
Overload - Continuous **Overload -** Short Duration (1 sec.)	Voltage : 1.2 x Un Current : 2 x In Voltage : 2 x Un Current : 20 x In
Max. Open Circuit Voltage	< 30VDC
Stability	± 0.25% Per Annum, Non Cumulative
Environmental Conditions Operating Temperature Storage Temperature Calibrated At	As per IEC 688 User Group II 0 to 55^{0}C, RH < 95% (non condensing) -20 to 70^{0}C, RH < 95% (non condensing) 27^{0}C ± 5^{0}C
Temperature Coefficient	0.02% / ^{0}C
Isolation	Complete (Input/Output/Auxiliary/Case)
Insulation Resistance	>100MΩ at 500VDC
Self Powered (optional)	Max.Variation of ± 20% in input voltage

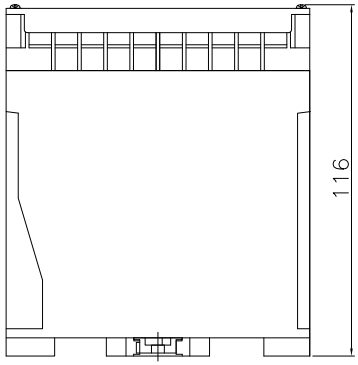
Warm Up Time	20 min. (approx.)
Dielectric Strength	2.5kV at 50 Hz for 1 min.(Standard) 4kV (Optional), across Casing - Input/Output/Auxiliary Input - Output Input - Auxiliary Output - Auxiliary
Impulse Test	5kV, 1.2 / 50 µS
Casing DIN Series	 Flame Retardant, Polycarbonate (UL 94V-0) Self Extinguishing, Non Drip, DIN Rail cum Wall Mounting Casing
Applicable Standards IEC 688 / EN 60688 EN 61010-1 EN 61326-1 IS12784 (Part-1)1989	 Electrical Measuring Tranducers for converting AC Electrical Quantities to Analog or Digital Signals Safety requirments 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

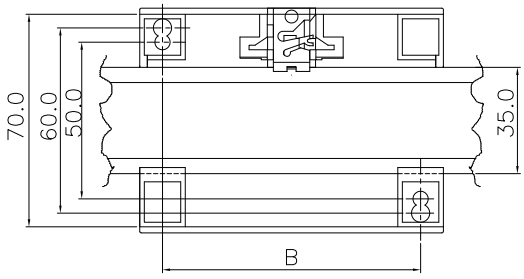
Ordering Information

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

Dimensions (in mm)







DIN Series

Case Size	A	B
I	75	60
II	100	85
III	150	135