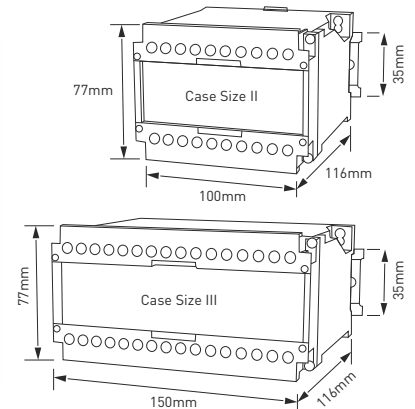


WT, RPT



MECO AC Active Power (Watt) & Reactive Power (Var) Transducers measure Power in 1 Phase, 3 Phase 3 Wire and 3 Phase 4 Wire in balanced or unbalanced electrical systems 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. These Transducers can measure both Import and Export of Power. 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	Watt	Var	Accuracy
1Phase 1Element 2Wire - TRMS	WT11	RPT11	±0.5% of Span
3Phase 1Element 2Wire (Balanced) - TRMS	WT31	RPT31	
3Phase 2Element 3Wire (Balanced & Unbalanced) - TRMS	WT33	RPT33	
3Phase 3Element 4Wire (Balanced & Unbalanced) - TRMS	WT34	RPT34	

AC Input	
Input Voltage	0-63.5/110/230/440 V (any one only)
Input Current	0-1/5 A (any one only)
Input Frequency	50/60/400 Hz (any one)
Input PF Range	0 (Lag) - 1 - 0 (Lead)
Measuring Range	0-1.2 x Un x In
Overload (continuous)	2 x In and 1.2 x Un
Burden (Voltage)	< Un x 6mA/Phase < 6 VA for Self Powered
Burden (Current)	< 0.5VA / Phase

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	*0-500Ω	2-10 V	
4-20 mA			

Auxiliary Power Supply		
Tolerance		Burden
AC Linear Power Supply	230 V ± 20%	< 4 VA
SMPS-HV	85-265 V AC/DC	< 2 VA
SMPS-LV	19-90 V AC/DC	
Self Powered	Max. Variation of ± 20% allowed in Input Voltage	Refer Input Burden

Optional

- Above Input Ranges with suitable CTR/PTR also available
- Bi-directional inputs for Import / Export of Power

Optional

- Dual Non-Isolated Outputs
- Dual Symmetrical & Asymmetrical Outputs
- Bi-directional Outputs
- *0-600Ω / 0-750Ω on Request

Optional

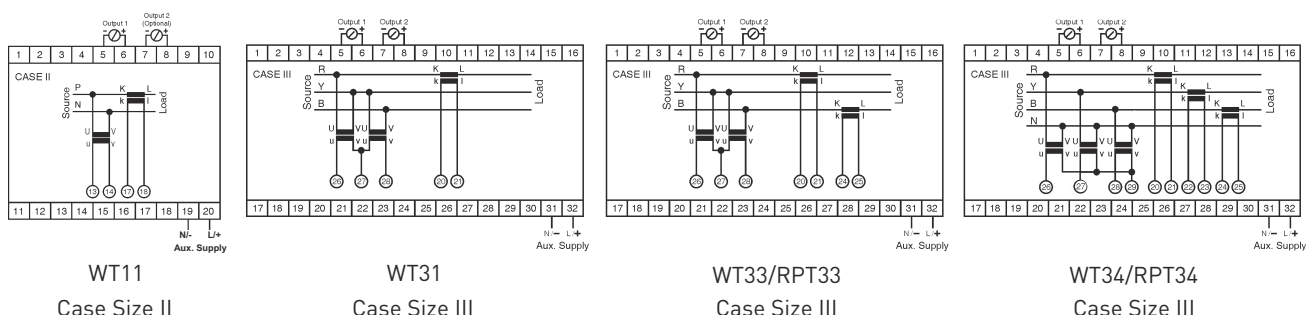
- Other Auxiliary Power Supplies available subject to technical feasibility

Dimension

- DIN Series :**
- Case Size II for 1 Phase
 - Case Size III for 3 Phase

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)

