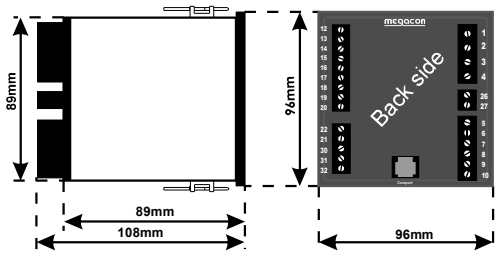
POWER MEASURING TRANSDUCER (WATT & VAr)

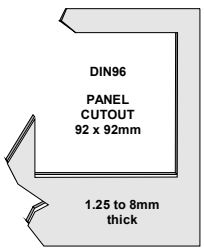
MPxWx/MPxRx

- **Active Power (Watt) or Reactive Power (kVAr) Transducer for balanced or unbalanced load**
- **Precision true RMS class 0,5 (kW) and class 1 (kVAr) measurement, not affected by any waveform distortion**
- **For use with 1A or 5A current transformers**
- **Very fast analogue output response time (<50mS)**
- **1500V Galvanic isolation**

Specifications

System Voltage and Auxiliary Supply:	100-120, 200-240, 380-415 or 440-460VAC, 40-70Hz
Optional Auxiliary Voltage:	18-36 or 36-160VDC
Current Input:	1 or 5A C.T.
Analogue Output:	-1/0/+10, -10/0/+10, -20/0/+20, 0-10, 0-20, 4-20, 4,3-20, 4/5,45/20, 4/12/20mA, max 500R or 0-10, 0,2-10V, min 10kohm
Temperature:	-20 to +70ºC
Weight:	0.5kgs
Front protection:	IP54 (IP65 optional)





Description

To be used in applications that require a very fast response, precision monitoring of active/reactive power. Ideal for systems for regulation and control of the load on generators, motors and inverters.

The MPxWxE is a high precision power transducer for balanced or unbalanced load system active (W) or reactive (VAr).

The unit has ONE very fast response analogue output signal, with amplitude proportional to the measured active power (W) or reactive power (VAr) level.

The noise-immune mA output is isolated from both the C.T. and voltage inputs and auxiliary power.

A green "Supply On" LED indicates the auxiliary supply presence.

Shown below are designations for the available circuit configurations:

ACTIVE POWER (W)
MP1W2E - 1 element, single phase, 2 wire
MP1W3E - 1 element, 3 phase, 3 wire, balanced load
MP2W3E - 2 element, 3 phase, 3 wire, unbalanced load
MP3W4E - 3 element, 3 phase, 4 wire, unbalanced load

REACTIVE POWER (VAr)
MP1R2E - 1 element, single phase, 2 wire
MP1R3E - 1 element, 3 phase, 3 wire, balanced load
MP2R3E - 2 element, 3 phase, 3 wire, unbalanced load
MP3R4E - 3 element, 3 phase, 4 wire, unbalanced load

The unit meets IEC60092-504 and the relevant environmental and EMC tests specified in IEC60068/60092 and IEC61000/60533 respectively, to comply with the requirements of the major Classification Societies.

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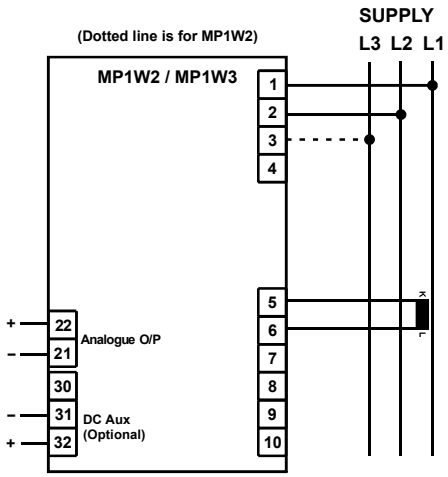
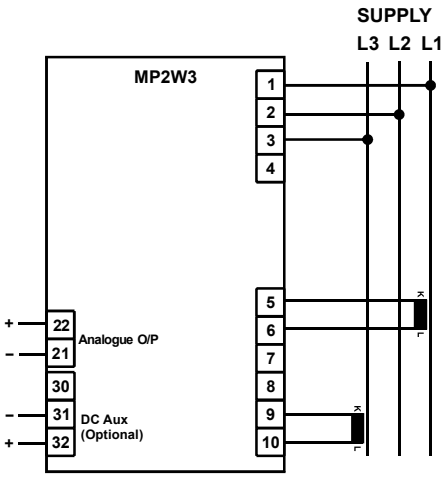
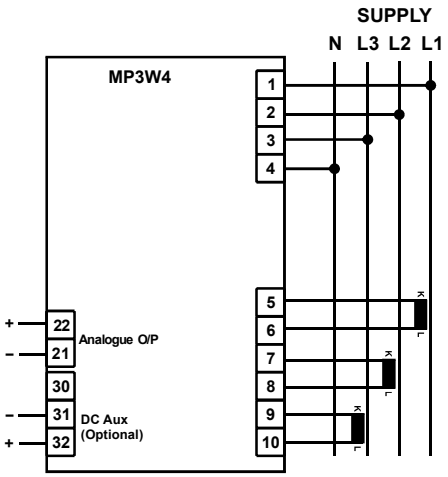
MPxWx/MPxRx

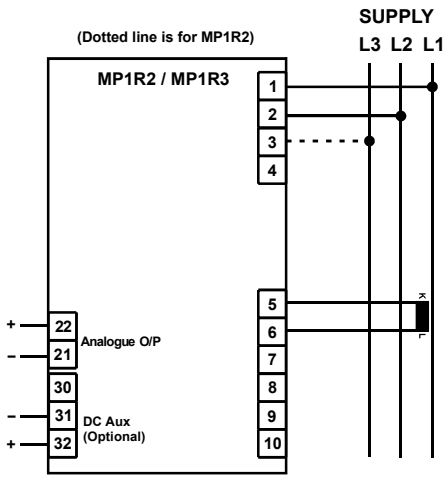
ACTIVE POWER (W)

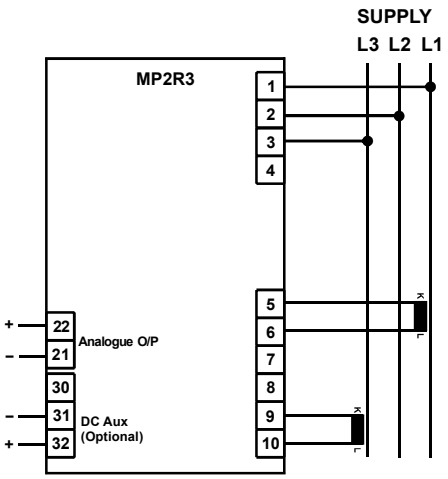


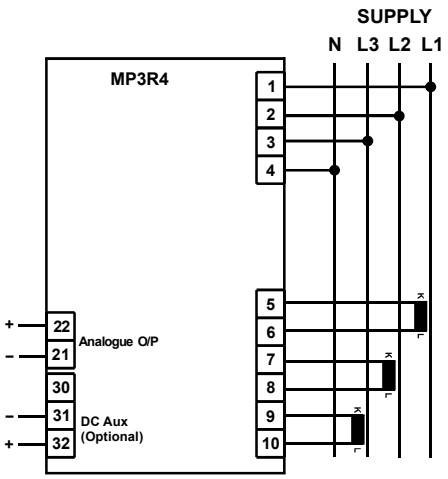




REACTIVE POWER (VAr)







The MEGACON policy is one of continuous improvement, consequently equipment supplied may vary in detail from this publication.

ORDERING EXAMPLE:

Type:	MP2W3E
Aux. Supply:	24VDC
System Voltage:	690:230V
Input Current:	1500/1A
Range:	-150/0/+1500kW
Analogue O/P:	-1/0/+10mA

IS range