**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

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

### 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 IEC60668/86002 and IEC61000/60533 respectively, to comply with the requirements of the major Classification Societies.
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:** -1500/1+1500kW
- **Analogue O/P:** -15/10mA

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**ACTIVE POWER (W)**

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