**POWER MEASURING TRANSDUCER (WATT & VAR)**

### MCxWx/MCxRx

- **Active Power (Watt) or Reactive Power (kVar)** Transducer for balanced or unbalanced load
- **Precision true RMS class 0,5 kW and kVar** measurement, not affected by any waveform distortion
- **For use with 1A or 5A current transformers**
- **Very fast analogue output response time** (30-50mS)
- **1500V Galvanic isolation**

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**Specifications**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monitored Voltage</td>
<td>100-120, 200-240, 380-415 or 440-460VAC, 40-70Hz</td>
</tr>
<tr>
<td>Optional Auxiliary DC Voltage</td>
<td>18-36 or 36-160VDC</td>
</tr>
<tr>
<td>Optional Auxiliary AC voltage</td>
<td>100-120, 200-240, 380-415 or 440-460VAC, 40-70Hz</td>
</tr>
<tr>
<td>Current Input</td>
<td>1 or 5A C.T.</td>
</tr>
<tr>
<td>Analogue Output</td>
<td>-1/0/+10, -10/0/+10, -20/0/+20, 0-10, 0-20, 4-20, 4.5/20, 4/12/20mA, max 500R or 0-10, 0-2.10V, min 10kohm</td>
</tr>
<tr>
<td>Accuracy</td>
<td>0.5% (of FSD)</td>
</tr>
<tr>
<td>Optional Output</td>
<td>DIN96 slave indicator panel</td>
</tr>
<tr>
<td>Temperature</td>
<td>-20 to +70°C</td>
</tr>
<tr>
<td>Weight</td>
<td>0.5kgs</td>
</tr>
<tr>
<td>Front Protection</td>
<td>IP41</td>
</tr>
</tbody>
</table>

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**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 MCxWxC2 is a 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.

It also includes an additional RJ12 output for a DIN96 Slave Indicator (optional).

Shown below are designations for the available circuit configurations:

**ACTIVE POWER (W)**
- **MC1W2C2** - 1 element, single phase, 2 wire
- **MC1W3C2** - 1 element, 3 phase, 3 wire, balanced load
- **MC2W3C2** - 2 element, 3 phase, 3 wire, unbalanced load
- **MC3W4C2** - 3 element, 3 phase, 4 wire, unbalanced load

**REACTIVE POWER (Var)**
- **MC1R2C2** - 1 element, single phase, 2 wire
- **MC1R3C2** - 1 element, 3 phase, 3 wire, balanced load
- **MC2R3C2** - 2 element, 3 phase, 3 wire, unbalanced load
- **MC3R4C2** - 3 element, 3 phase, 4 wire, unbalanced load

The unit meets IEC60092-504 and the relevant environmental and EMC tests specified in IEC60068/60902 and IEC61000/60533 respectively, to comply with the requirements of the major Classification Societies.
POWER MEASURING TRANSDUCER (WATT & VAR)

MCxWx/MCxRx

ACTIVE POWER (W)

Supply
(Dotted line is for MC1W3C2)

MC1W2C2/ MC1W3C2

DC aux (Option)
mA output
AC aux (Option)
optional Slave Indicator

MC2W3C2

DC aux (Option)
mA output
AC aux (Option)
optional Slave Indicator

MC3W4C2

DC aux (Option)
mA output
AC aux (Option)
optional Slave Indicator

REACTIVE POWER (VAR)

Supply
(Dotted line is for MC1R3C2)

MC1R2C2/ MC1R3C2

DC aux (Option)
mA output
AC aux (Option)
optional Slave Indicator

MC2R3C2

DC aux (Option)
mA output
AC aux (Option)
optional Slave Indicator

MC3R4C2

DC aux (Option)
mA output
AC aux (Option)
optional Slave Indicator

ORDERING EXAMPLE:
Type: MC2W3C2
Aux. Supply: 24VDC
System Voltage: 690/230V
Input Current: 1500/1A
Range: -1500/0+1500kW
Analog O/P: -150+10mA

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