



- **Active Power (Watt) Transducer for balanced or unbalanced load**
- **High Precision true RMS class 0,2 (kW) 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**
- **Optional slave indicator**

## Specifications

Monitored Voltage	100-120, 200-240, 380-415 or 440-460VAC, 40-70Hz (Fuse 0,5A)
Optional Separate Auxiliary Voltage DC:	24, 48 or 110VDC (Fuse 2A)
Optional Separate Auxiliary Voltage AC:	100-120, 200-240, 380-415 or 440-460VAC, 40-70Hz (Fuse 0,5A)
Current Input:	1 or 5A C.T. <0,1VA
Analogue Output:	-1/0/+10mA -10/0/+10mA -20/0/+20mA 0-10mA 0-20mA 4-20mA 4,3-20mA 4/5,45/20mA 4/12/20mA (max 500ohm for all mA outputs)
(other outputs available on request)	0-10V 0,2-10V (min 100kohm for all V outputs)
Accuracy:	Class 0,2 (kW)
Optional Output:	DIN96 slave indicator panel
Temperature:	-20 to +70°C
Weight:	0.5kgs
Front protection:	IP21

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.

## Description

The digital controlled MCxWxC2-C0,2 is a precision power transducer for balanced or unbalanced load system active (W). 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 unit measures the voltage and current true r.m.s. value, and accuracy is independent of any waveform distortion.

The unit is a high precision class 0,2 power transducer (Watt) for balanced or unbalanced load system.

The unit has ONE very fast response analogue output signal, with amplitude proportional to the measured active power (W) level. It is recommended to use high precision current transformer of class 0,2.

The standard version takes the auxiliary voltage from the monitored voltage on terminal 1 & 2. It can be delivered with separate AC (term. 22 & 24) or DC (term. 11 & 12) auxiliary voltage but that must be specified when ordering.

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

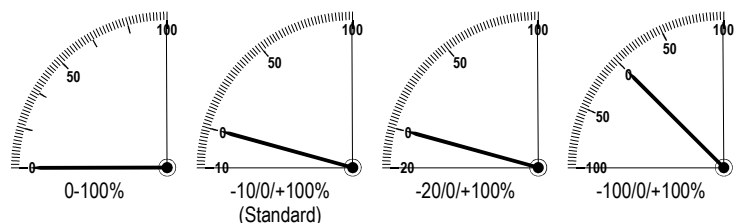
A green "Supply On" LED indicates the auxiliary supply presence. It also includes an additional RJ12 output for a DIN96 Slave Indicator (optional). If output is used for remote meter reading, we recommend 0-1mA for the slave indicator.

Shown below are designations for the available circuit configurations:

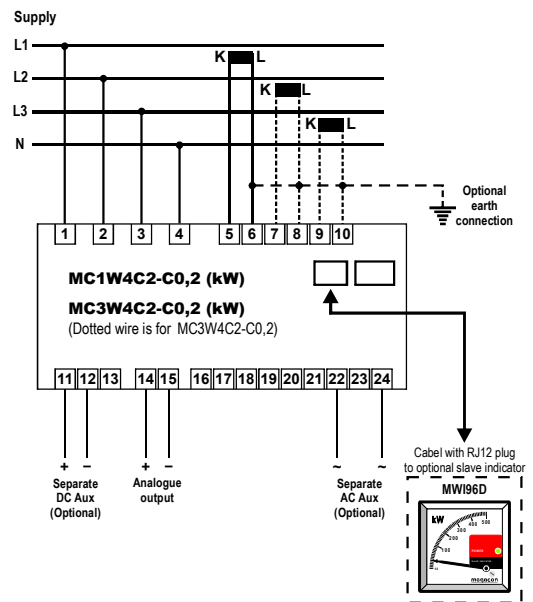
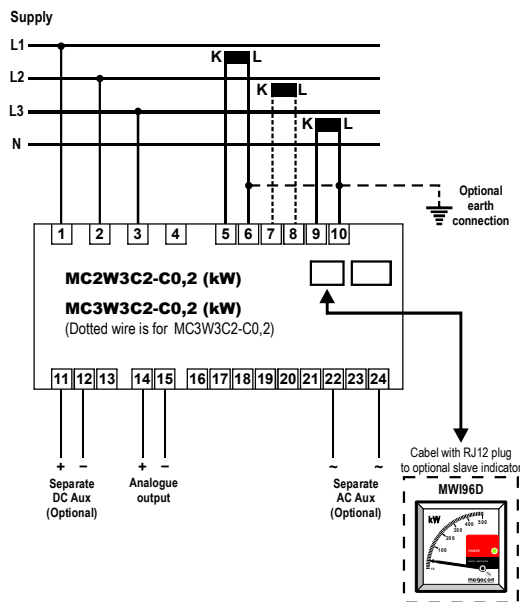
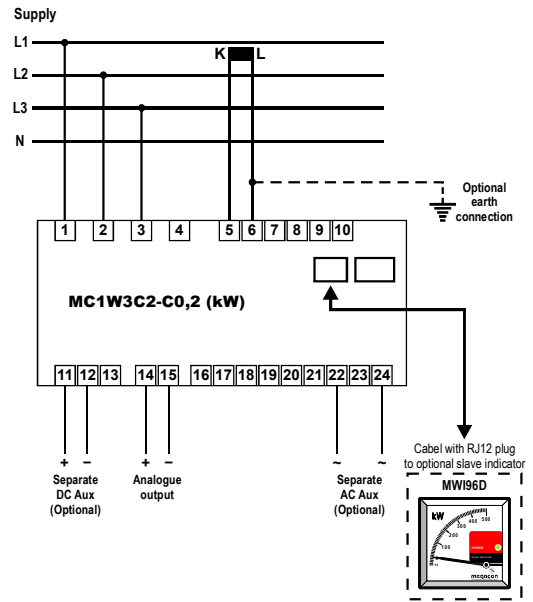
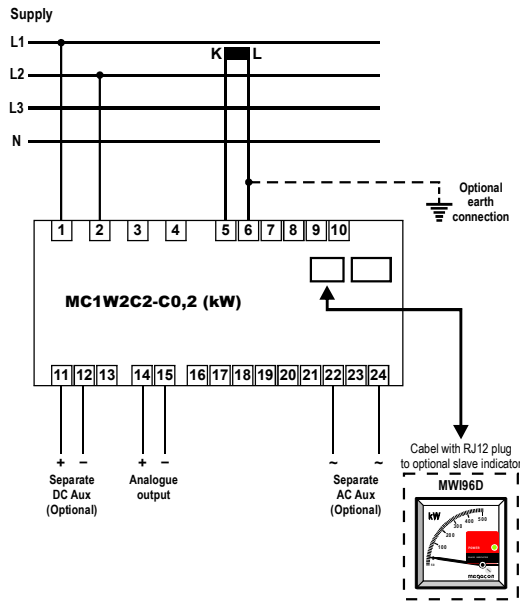
### ACTIVE POWER (W)

- MC1W2C2-C0,2** - 1 element, single phase
- MC1W3C2-C0,2** - 1 element, 3 phase, 3 wire, balanced load
- MC1W4C2-C0,2** - 1 element, 3 phase, 4 wire, balanced load
- MC2W3C2-C0,2** - 2 element, 3 phase, 3 wire, unbalanced load
- MC3W3C2-C0,2** - 3 element, 3 phase, 3 wire, unbalanced load
- MC3W4C2-C0,2** - 3 element, 3 phase, 4 wire, unbalanced load

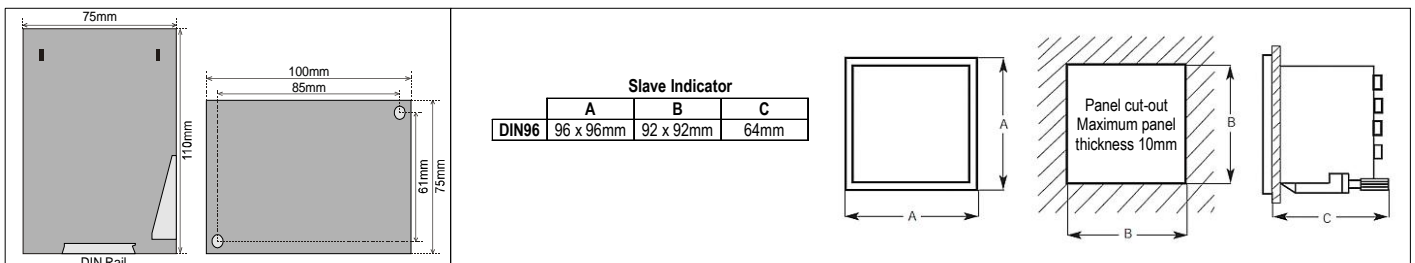
### SCALING



**Connection Diagrams** To ensure correct kW measurement voltage phase sequence and CT connections MUST be as shown on connection diagram.



## Dimensions



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

### ORDERING EXAMPLE:

Type: MC2W3C2-C0,2  
 Sep. Aux. Supply (optional): 24VDC  
 System Voltage: 690/230V  
 Input Current: 1500/5A  
 Range: -150/0/+1500kW  
 Analogue O/P: -1/0/+10mA

