



- Single phase AC Voltage Transducer
- Precision true RMS class 0,5 measurement, not affected by any waveform distortion
- Up to two individual very fast analogue output signals (<50mS), (optional)
- DIN96 Slave Indicator with volt scale (optional)

**Specifications**

Monitored Voltage:	100-120V, 200-240V, 380-415V, 440-460V, 480VAC, 40-70Hz (Fuse 0,5A)
Optional Separate Auxiliary Voltage AC:	100-120V, 200-240V, 380-415V, 440-460V, 480VAC, 40-70Hz (Fuse 0,5A)
Optional Separate Auxiliary Voltage DC:	24-60VDC (Fuse 0,5A) 110-220VDC (Fuse 1A)
Supply tolerance:	+10%, -20%
Power rating:	5VA
Voltage input range:	0-150V
(Other range on request)	0-300V 0-500V 0-600V
Analogue output 1:	mA: Up to 20mA, max 500R
(see page 2 for available outputs)	V: Up to 10V, min 100kohm (other on request)
Analogue output 2:	mA: Up to 20mA, max 500R
(see page 2 for available outputs)	V: Up to 10V, min 500ohm (other on request)
Accuracy:	Class 0,5
Temperature:	-20 to +70°C
Humidity, relative:	0-95%
Weight:	0.6kgs
Front protection:	IP21
Flammability:	UL94-V0

**Description**

The digitally controlled MCVB3x is for use in applications that require a very fast response, precision monitoring of phase voltage. Ideal for systems for measuring or regulation and control of the voltage on generators, motors and inverters.

The MCVB3x is a precision single phase voltage measuring transducer.

The unit measures the voltage and current true r.m.s. value, and accuracy is independent of any waveform distortion. A green LED (ON) indicates the auxiliary supply presence.



Up to two individual very fast analogue output signals (optional) proportional to the measured voltage range (see page 2 for available outputs). The analogue output is isolated from both voltage input and auxiliary power.

The standard model have **one** output signal, but optional model have **two** output signals.

If an output is used for remote meter reading, we recommend 0-1mA for the slave indicator.

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

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

Models	O/P 1	O/P 2	Standard model	Optional model
MCVB3A	X	-	X	-
MCVB3B	X	X	-	X

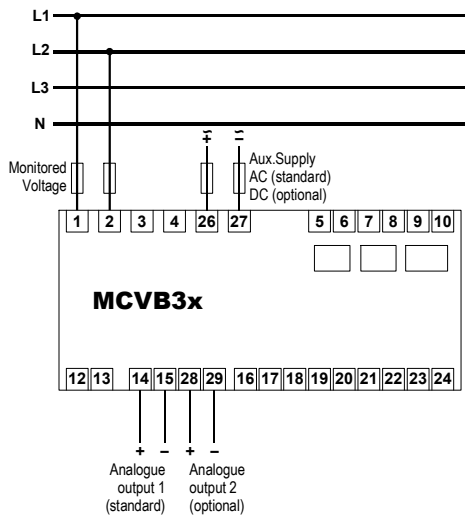
The unit meets EN 60255-27 Cat. III, Pollution degree 2 and the relevant environmental and EMC tests specified in EN 60255-26 to comply with the requirements of the major Classification Societies.

Related information:

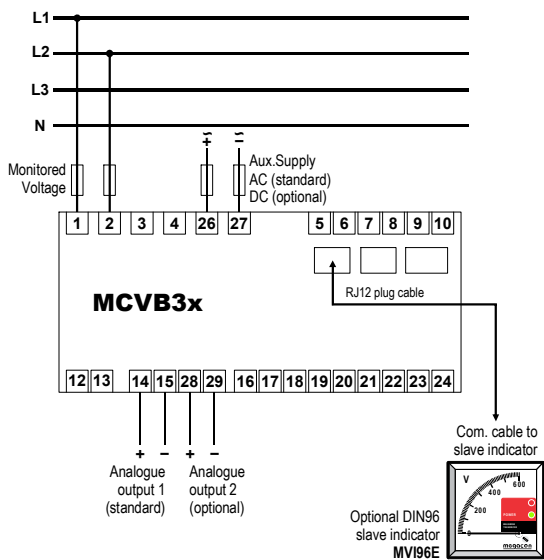
The MCVB3x series are also available for panel mounting as MEVE series.

Connection Diagram

Connection Diagram without optional slave instrument



Connection Diagram with optional slave instrument



Analogue Output

The output signals are proportional to the meter reading (see page 1 for an overview of models and functions).

The signal is specifically intended as an input to a control system for monitoring or control.

Add suffix from table below to type designation to specify output required:

Outputs 1		Outputs 2	
O/P1	0 - 10mA	O/P11	0 - 10mA
O/P2	0 - 20mA	O/P12	0 - 20mA
O/P3	4 - 20mA	O/P13	4 - 20mA
O/P4	N/A	O/P14	N/A
O/P5	N/A	O/P15	N/A
O/P6	N/A	O/P16	N/A
O/P7	N/A	O/P17	N/A
O/P8	0 - 10V	O/P18	0 - 10V
O/P9	0,2 - 10V	O/P19	0,2 - 10V
O/P10	4,3 - 20mA	O/P20	4,3 - 20mA

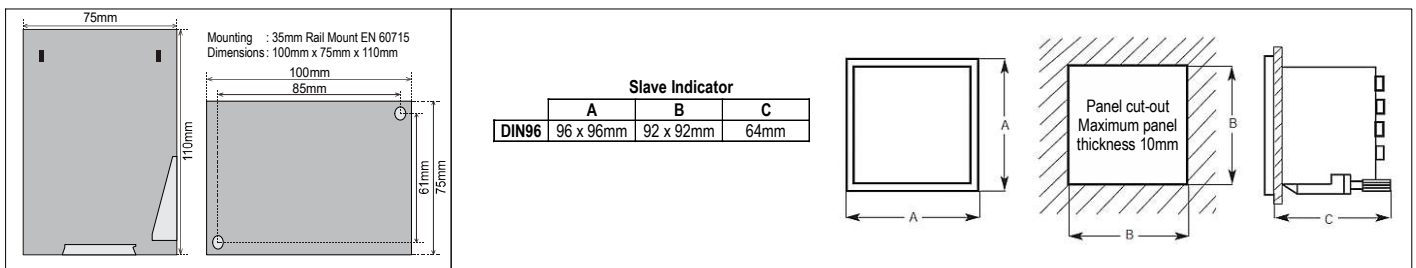
Connection

Terminal type : Terminal Clamp and Screw  
 Wire max. : T1-T4,  
 T26-T27: AWG 24-14,  
 T5-T10: AWG 12,  
 other terminals: AWG 24-12  
 Screw Torque : 0.5Nm

Overload

Voltage : 1.2 x Un continuous  
 2 x Un for 10secs  
 Current : 2.5 x In continuous  
 5 x In for 1secs (max 25A)

Dimensions



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

**ORDERING INFORMATION (Example)**

Type	: MCVB3B-Sx	Aux. Supply:	
Aux. Supply	: 200-240VAC	Add SA for models with AC Aux. Supply.	(Example: MCVB3B-SA)
Input Voltage	: 230V		
Range	: 0-300V	Add SD for models with DC Aux. Supply.	(Example: MCVB3B-SD)
Analogue output 1	: O/P3: 4-20mA		
Analogue output 2	: O/P18: 0-10VDC		

