HIGH PRECISION SINGLE AC VOLTAGE TRANSDUCER - CLASS 0 2 MCVB3x-C0,2

- **High Precision Single phase AC Voltage Transducer**
- **Precision true RMS class 0,2 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: (Other range on request)	0-150V 0-300V 0-500V 0-600V
Analogue output 1: (see page 2 for available outputs)	mA: Up to 20mA, max 500R V: Up to 10V, min 100kohm (other on request)
Analogue output 2: (see page 2 for available outputs)	mA: Up to 20mA, max 500R V: Up to 10V, min 500ohm (other on request)
Accuracy:	Class 0,2
Temperature:	-20 to +70ºC
Humidity, relative:	0-95%
Weight:	0.6kgs
Front protection:	IP21
Flammability:	UL94-V0

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-C0,2 series are also available for panel mounting as MEVE-C0,2 series.

Description

The digitally controlled MCVB3x-C0,2 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-C0,2 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 wave form distortion. A green LED (ON) indicates the auxiliary supply presence.

LED status
Power
●
ON

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).

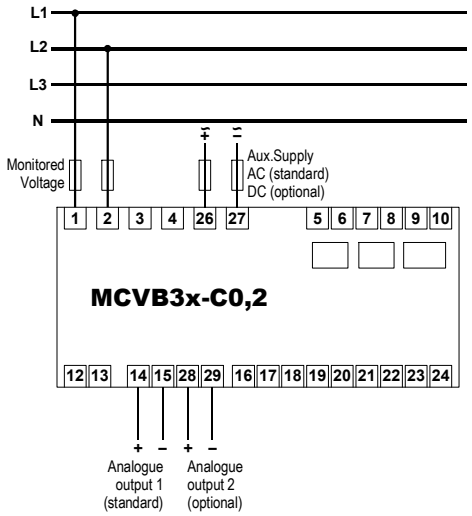
The noise-immune mA output is isolated from both voltage inputs and auxiliary power.

Models	O/P 1	O/P 2	Standard model	Optional model
MCVB3A-C0,2	X	-	X	-
MCVB3B-C0,2	X	X	-	X

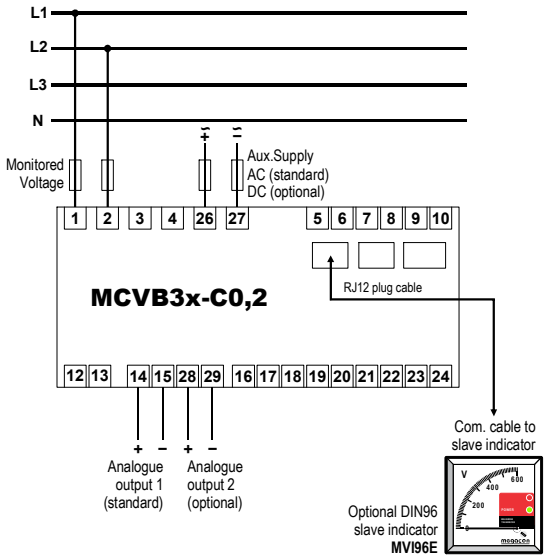
MCVB3x-C0,2

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	N/A	O/P18	**0 - 10V**
O/P9	N/A	O/P19	**0,2 - 10V**
O/P10	**4,3 - 20mA**	O/P20	**4,3 - 20mA**

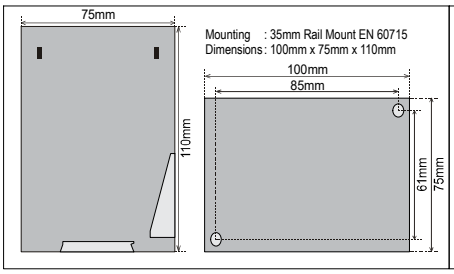
Connection

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

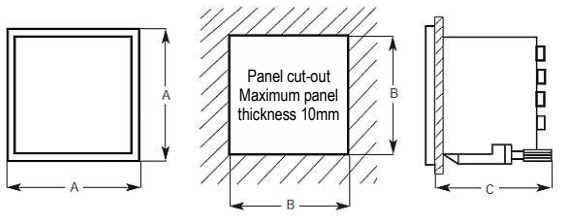
Voltage	: 1.2 x Un continuous 2 x Un for 10secs
Current	: 2.5 x In continuous 5 x In for 1secs (max 25A)

Dimensions



Slave Indicator

	A	B	C
DIN96	96 x 96mm	92 x 92mm	64mm



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

ORDERING INFORMATION (Example)

Type	: MCVB3B-C0,2-Sx
Aux. Supply	: 200-240VAC
Input Voltage	: 230V
Range	: 0-300V
Analogue output 1	: O/P3: 4-20mA
Analogue output 2	: O/P18: 0-10VDC

Aux. Supply:
Add **SA** for models with **AC** Aux. Supply. (Example: MCVB3B-C0,2-**SA**)

Add **SD** for models with **DC** Aux. Supply. (Example: MCVB3B-C0,2-**SD**)

IS range