FREQUENCY TRANSDUCER



- Power Frequency Transducer
- Precision true RMS class 0,5 measurement, not affected by any waveform distortion

MCFB4x

- Up to two individual very fast analogue output signals (<50mS), (optional)
- DIN96 Slave Indicator with frequency 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	24-60VDC (Fuse 0,5A)
Auxiliary Voltage DC:	110-220VDC (Fuse 1A)
Supply tolerance:	+10%, -20%
Power rating:	5VA
Frequency range: (Other range on request)	45-55Hz 55-65Hz 45-65Hz 30-70Hz
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 0,5
Temperature:	-20 to +70°C
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 MCFB4x series are also available for panel mounting as MPFE series.

Description

The digitally controlled MCFB4x is for use in applications that require a very fast response, precision monitoring of the frequency. Ideal for systems for regulation and control of the frequency on generators, motors and inverters.

The MCFB4x is a precision frequency measuring transducer for AC voltage input.

The unit measures the voltage and current true r.m.s. value, and accuracy is independent of any wave form distortion. Agreen 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 frequency level (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 input and auxiliary power.

The standard models takes the auxiliary supply voltage from the monitored voltage (terminal 1 & 2).

It can also be delivered with optional separate AC or DC auxiliary voltage (terminal 26 & 27), but that must be specified when ordering (see page 2 for ordering code for separate Aux. Supply).

Models	O/P 1	O/P 2	Standard model	Optional model
MCFB4A	Х	-	Х	-
MCFB4B	Х	Х	-	Х

Norway Denmark United Kingdom

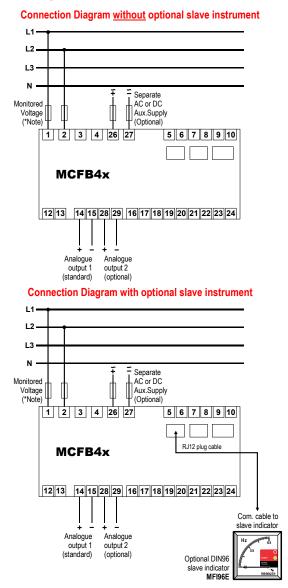


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MCFB4x

Connection Diagram



*Note: The standard models takes the auxiliary supply voltage from the monitored voltage (terminal 1 & 2).

Analogue Output

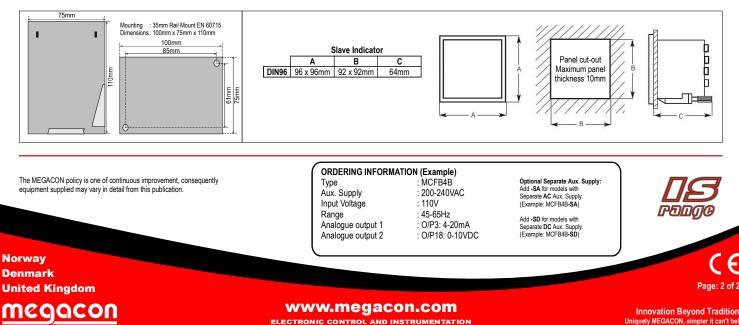
The output signals are proportional to the meter reading (see page 1 for an overview of models and functions).

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 O/P1 O/P2 O/P3 O/P4 O/P5 O/P6 O/P7 O/P8 O/P9 O/P10	0-10mA 0-20mA 4-20mA N/A N/A N/A 0-10V 0,2-10V 4,3-20mA	Outputs : O/P11 O/P12 O/P13 O/P14 O/P15 O/P16 O/P17 O/P18 O/P19 O/P20	2 0 - 10mA 0 - 20mA 4 - 20mA N/A N/A N/A 0 - 10V 0,2 - 10V 4,3 - 20mA
Connecti Terminal t Wire max	уре	: T1-T4, T26-T27 T5-T10:	l Clamp and Screw 7: AWG 24-14, AWG 12, rminals: AWG 24-12
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



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