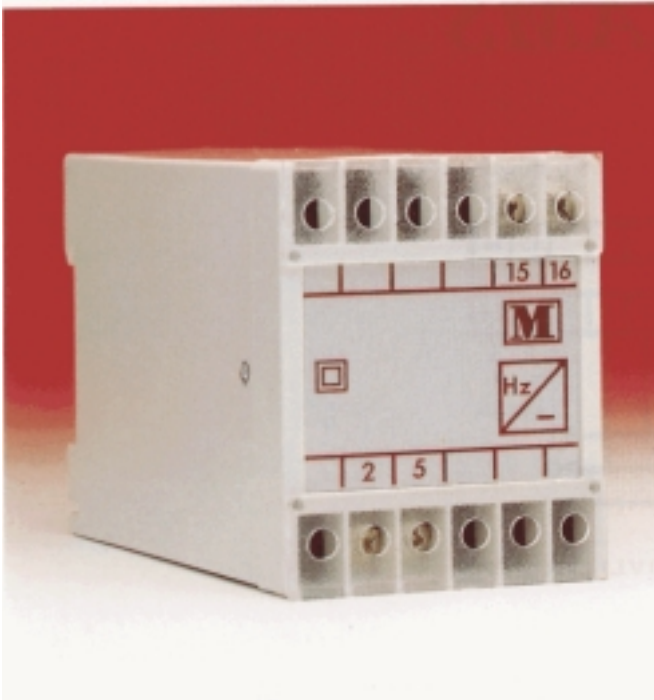


FREQUENCY



TECHNICAL SPECIFICATION

INPUT

Rated value U_n	57.8 < 600V
Power consumption	<1.5 VA (FA1) <1 VA (FL1 FX1)
Working range	75-125% U_n (FA1) 15-125% U_n (FL1 FX1)
Measuring range	45-55 / 45-65 / 55-65 / 360-440Hz
Overload continuous	1.5 x U_n
Overload for 1 sec.	2 x U_n

OUTPUT

Rated value mA	0-1 / 5 / 10 / 20mA (FA1 FX1)
Rated value mA	4-20mA (FL1)
Rated value volts	0-5 / 10 V (FA1 FX1)
Rated value volts	1-5 V (FL1)

ADJUSTMENT

Zero	No adjustment
Span	No adjustment

AUXILIARY

A.C. Voltage	115 / 230 / 400 V ($\pm 25\%$ / 45-65 Hz / < 2 VA)
D.C. Voltage	24 / 48 / 110 V ($\pm 20\%$ / galvanically isolated / <3W) Note M100-FA1 is self powered

WEIGHT & CASE SIZE Approx. 0.4kg, 55mm case

SELECTION GUIDE

M100-FA1	Self powered true zero outputs
M100-FL1	Auxiliary powered live zero outputs
M100-FX1	Auxiliary powered true zero outputs

TYPICAL APPLICATIONS

The M100 series of frequency transducers are designed to measure frequency in single and 3 phase systems. The A.C. Input is converted to a D.C. Output, that is directly proportional to the change in input frequency within a specified span.

The M100-FA1 is self powered. (No auxiliary required)
The working voltage range is 75-125% of the nominal voltage.

The M100-FL1 is auxiliary powered. The outputs are live zero either 4mA or 1 volt. The auxiliary enables the working voltage range to be 15-125%.

The M100-FX1 is essentially the same as the FA1 but an auxiliary is provided to enable the unit to have a working voltage range of 15-125%.

All types of the above frequency transducers are typically used to monitor and control frequency in such applications as 3 phase mains supplies, A.C. Generating sets and process control etc.

ORDERING INFORMATION

Product code	Input Hz	Output	Aux	Freq.	Options
M100-FL1	45-55Hz	4-20mA	230V	50Hz	

OPTIONS

1. Non standard inputs / outputs only as far as technically acceptable.
2. A.C. Auxiliary in range 57.7 to 450 volts
3. Calibration at temperature other than 23°C

CONNECTION DIAGRAMS

