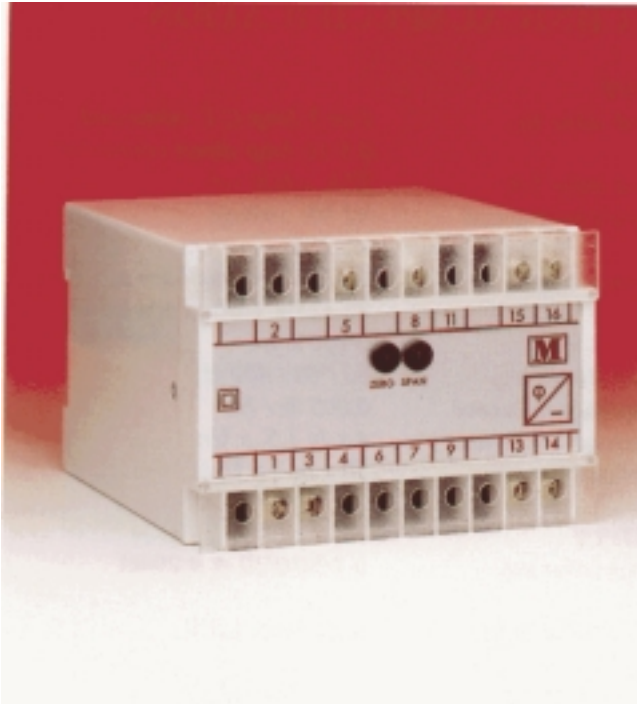


PHASE ANGLE



TECHNICAL SPECIFICATION

INPUT

| | |
|---------------------|--|
| Rated value In | 1 or 5 Amp C.T. connected 0.5-10 Amp direct connected |
| Rated value Un | 57.8 < 600 volt |
| Power consumption | <1 VA voltage (aux powered) <2.5 VA voltage (self powered) <0.2 VA current |
| Working range | 15-125% Un auxiliary powered 75-125% Un self powered 10-150% In |
| Measuring range | ± 45 / 60 / 90 / 180° M100-PA1 ± 45 / 60° M100-PA2 ± 90 / 180° M100-PA3 |
| Rated Frequency | 50 / 60 / 400 Hz |
| Frequency influence | 0.005 % / Hz |
| Overload continuous | 4 x In 1.5 x Un |
| Overload for 1 sec. | 50 x In 2 x Un |
| ACCURACY | ± 1 Degree |

OUTPUT

| | |
|-------------------|----------------------|
| Rated value mA | 0-1/5/10/20 & 4-20mA |
| Rated Value Volts | 0-5 / 10 & 1-5 V |

ADJUSTMENT

| | |
|------|-------|
| Zero | ± 2% |
| Span | ± 10% |

AUXILIARY

| | |
|--------------------|---|
| A.C. Voltage | 115 / 230 / 400 V (± 25% / 45-65 Hz / < 2VA) |
| D.C. Voltage | 24 / 48 / 110 V (± 20% galvanically isolated / <3W) |
| WEIGHT & CASE SIZE | Approx. 0.6 kg, 100mm case |

SELECTION GUIDE

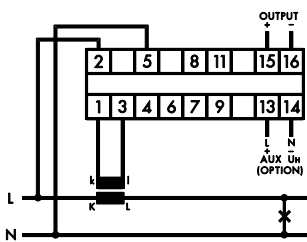
| | |
|-----------|---|
| MI100-PA1 | Single phase 4 quadrants |
| MI100-PA2 | 3 phase 3 or 4 wire balanced 2 quadrants |
| MI100-PA3 | 3 phase 3 or 4 wire balanced 4 quadrants |
| MI100-PV1 | Single phase 4 quadrants phase angle between two voltages |

TYPICAL APPLICATIONS

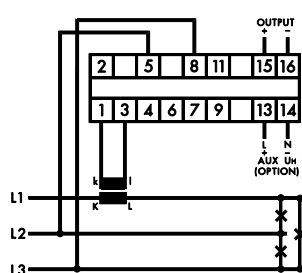
The MI100-PA series of phase angle transducers measure the phase angle between current and voltage. They can be used on single and 3 phase 3 or 4 wire balanced systems. Ideal for optimising power factor correction.

The MI100-PV2 measures the phase angle between two voltage supplies and provides a D.C. Output signal proportional to the phase angle between the voltages.

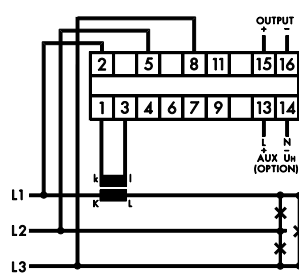
CONNECTION DIAGRAMS



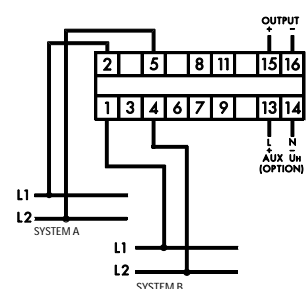
MI100-PA1



MI100-PA2



MI100-PA3



MI100-PV1

ORDERING INFORMATION

| | | | | | | | | |
|--------------|-----|------|------|-----|-------|------|-------|------|
| Product code | I/P | In | Un | O/P | Range | Aux. | Freq. | Opt. |
| MI100-PA2 | | 5Amp | 400V | | ± 45° | 120V | 60Hz | |

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 nominal Hz 35.....450Hz
4. Calibration at temperature other than 23°C

CONNECTION DIAGRAMS