



Measurement instruments

Applications



Measurement of basic electrical values as voltage, current, frequency. To avoid down-time due to abnormal situations, i.e. power-supply voltage too high, absorbed power too high, etc., leading to malfunctioning and even break-down of the machinery, the measurement and monitoring of the electrical values like voltage, current, frequency, etc. is an absolute must and even an indispensable asset when it comes to preventive maintenance.

Function

Measurement, visualisation and logging of voltage, current, frequency, hours of operation.

Standards

EN 61010-1, BS EN 60051-1-2









Features

- AC measurement devices with analogue technology and readout are available.
- The devices (one measurement only i.e. voltage, current, frequency) are only available in single phase.
- High currents can be measured through the intermediate use of a current transformer (for the analogue amp-meter combined with an interchangeable scale-plate).
- All devices have very good precision and have also a very low self-consumption to limit as much as possible the measurement error.
- Using one monophase-volt or amp-meter in a 3-phase system is possible by using the appropriate selector switch.


Performance

	Analogue instruments Polycarbonate + carbon needle Interchangeable scaleplate
Readout	
Scale selection	Interchangeable scaleplate
Own consumption current meters	0.3VA
Own consumption other meters	1.5VA
Operating temperature range	-10 ... +55°C
Test voltage	2000V at 50Hz during 1 minute
Class of precision (accuracy)	1.5 (0.5 for frequency meter)
Overload current coils	
- 1 second	10xIn
- Continuous	2xIn
Overload voltage coils	
- 0.5 second	2xUn
- Continuous	1.2xUn
Vibration resistance	0.35 mm at 10/55Hz on 3 axes, duration of 6 hours
Shock resistance	50g
Protection degree	IP40
Screws	Pozidriv 1
Terminal capacity: min	1x1 mm ²
max	1x16 mm ² or 2x6 mm ²

Analogue measurement instruments

		Scale	Accuracy	Number of phases	Number of modules	Cat. No.	Ref. No.	Pack.
	Volt meter	500V	1.5	1	3	MGAV500	666890	1
								
	Ammeter	- 15A	1.5 1.5	1 1	3 3	MGAA MGAA15	666887 666885	1 1
								
	Frequency meter	45...65Hz	0.5	1	3	MGAF	666888	1
								
	Hour counter	12V 230V/50Hz	- -	1 1	2 2	MGABZL5 MGABZM5	666900 666889	1 1
								

Accessories

	Scale	Cat. No.	Ref. No.	Pack.	
	Interchangeable Ammeter scaleplates for 666887	40/5A	MT SP 40	666395	1
		50/5A	MT SP 50	666397	1
		60/5A	MT SP 60	666399	1
		80/5A	MT SP 80	666401	1
		100/5A	MT SP 100	666389	1
		150/5A	MT SP 150	666391	1
		200/5A	MT SP 200	666392	1
		250/5A	MT SP 250	666393	1
		300/5A	MT SP 300	666394	1
		400/5A	MT SP 400	666396	1
		500/5A	MT SP 500	666398	1
		600/5A	MT SP 600	666400	1
		800/5A	MT SP 800	666402	1
	1000/5A	MT SP 1000	666390	1	

Dimensions

