Analogue Panel Instruments

We offer a comprehensive range of analogue and panel instruments for use in control and instrumentation systems. The range includes moving-iron and moving-coil mechanisms in a variety of formats, scales and sizes. All our panel meters are robust, accurate and constructed from high-quality materials to give a long service life. Ammeters, voltmeters and power meters are available with a large range of scales and can be further customised for special applications.



Application

- HV and LV switchgear panels
- Control and relay panels
- Power control centre (PCC) panels
- Motor control centre (MCC) panels
- Test benches
- Laboratory equipment

Benefits

- Easy to install, with snap-in mounting
- Well proven instrument designs for high quality and reliability
- Complete product range for a wide range of applications
- Low power consumption
- No need for additional magnetic shielding

Features

- Range of standard front panel sizes: 48x48, 72x72 and 96x96 mm
- Range of scales: quadrant (90°), circular (240°) and edgewise
- Options for different mounting positions: horizontal, vertical or angled
- Optional protective coatings and materials for use in tropical environments
- Ingress protection rating IP 54 across the range (option for IP 65)
- Wide temperature range: -25 °C to +50 °C
- Adjustable red markers for meters with quadrant scales
- Models available for AC or DC measurement
- Measured parameters:
- Current
- Voltage
- Frequency
- Power (active or reactive)
- Power factor
- Maximum demand (current)
- Synchronisation (pointer synchroscope, twin voltmeter or twin frequency meter)





Technical specifications

www.securemeters.com/au	www.securemeters.com/me	www.securemeters.com/eu	www.securemeters.com/in	www.securemeters.com/uk
Australia sales_australia@securemeters.com	Dubai sales_middleeast@securemeters.com	Europe sales_europe@securemeters.com	India, SE Asia, Africa sales_india@securemeters.com	UK sales_uk@securemeters.com
		10 07 112, 30 07 112 01 373-423 1		
Measuring range		46-54 Hz, 56-64 Hz or 375-425 Hz		
Voltage				
Front panel size		72x72 or 96x96 mm		
Frequency Meters Scale type		Quadrant (90°)		
Eroquoncy Motors				
		Input voltage: 100, 110, 230, 400 or 500 V		
Measuring range Input current: 1, 2, 5 or 10 A (power meters only)				
Frequency		40 to 65 Hz		
Front panel size	96x96 mm			
Scale type Quadrant (90°) or cir)°)	
Power Meters (Active and Rea	active) and Power Factor Mete	ers		
Measuring range		25 models cover 0-6 A to 0-4.8 kA (via 1 A or 5 A current transformer)		
Frequency		15 to 100 Hz		
Setting time		15/8 minutes		
Front panel size		48x48, 72x72 or 96x96 mm		
Scale type	Quadrant (90°)			
Maximum Demand Ammeter	with Bimetallic Movements (V	Nith or Without Moving-iron A	mmeter)	
		1.2x on continuously, 2x ON TO	or 5 S, 2X in continuousty, 10	
Overload capability		12 models cover 6 V to 600 V (plus 110 V via voltage transformer) 1.2x Un continuously, 2x Un for 5 s, 2x In continuously, 10 In for 10 s		
Circular scale				
		12 models cover 6 V to 600 V (plus 110 V via voltage transformer) 16 models cover 1 mA to 1 A (plus 1 A or 5 A via current transformer)		
Quadrant scale		18 models cover 400 mA to 1 A (plus 1 A or 5 A via current transformer)		
Measuring ranges				
Frequency		50 to 60 Hz (default)		
-		Full range		
Front panel size		48x48, 72x72 or 96x96 mm (qua	adrant or circular scale)	
		Quadrant (90°), circular (240°) or edgewise (70°)		
Moving Coil Instruments: AC	Ammeters and Voltmeters			
Overload capability		1.2X ON CONTINUOUSLY, 2X ON IC	or 5 s, 2x in continuousty, 10	
Edgewise scale		23 models cover 100 μA to 1 A 16 models cover 1 V to 600 V 1.2x Un continuously, 2x Un for 5 s, 2x In continuously, 10x In for 10 s		
Circular scale		26 models cover 600 mA to 25 A 22 models cover 60 mV to 600 V		
Quadrant scale		30 models cover 100 μ A to 25 A 22 models cover 60 mV to 600 V		
Measuring ranges				
Frequency		50 to 60 Hz (default)		
Linearity		Full range		
		48x24, 72x24 or 96x48 mm (edgewise scale)		
Front panel size		48x48, 72x72 or 96x96 mm (qua		
Scale type		Quadrant (90°), circular (240°) or edgewise (70°)		
Moving Coil Instruments: DC	Ammeters and Voltmeters			
Overload capability		1.2x Un continuously, 2x Un for 5 s, 2x In continuously, 10x In for 10 s CT-operated ammeter: 50x In for 1 s		
Quarter damashilitu		13 models cover 6 V to 800 V		
Measuring ranges		13 models cover 250 mA to 60 A (plus 1 A or 5 A via current transformer)		
Frequency		50 to 60 Hz (default)		
Linearity		From 20% to 100% of full range		
fione panet size		48x48, 72x72 or 96x96 mm	nm	
Front panel size				

Specifications are subject to change without prior notice