

AC Voltage

AC Current

Long Scale Moving Coil AC Ammeters and Voltmeters

Moving coil rectified instruments measure average values of sinusoidal waveforms and are scaled in RMS values.

Specifications

AC Ammeter inputs	AC Voltmeter inputs	
0/1A AC	0/60V AC	
0/1.2A AC	0/100V AC	
0/5A AC	0/120V AC	
0/6A AC	0/125V AC	
0/10A AC	0/140V AC	
	0/150V AC	
	0/250V AC	
	0/300V AC	
	0/400V AC	
	0/500V AC	
	0/600V AC	

Accuracy:	Class 1.5
Frequency:	50/60Hz
Impedance:	Ammeters: 75mV internal shunt Voltmeters: 900 ohm/V

Dimensions

Bezel size mm	72	96	
Scale length mm	65	94	
Product codes			
AC Ammeters	E243-05B	E244-05B	
AC Voltmeters	E243-05W	E244-05W	



Features

- A range of the most popular long scale measuring instruments in 2 case sizes
- Shock resistant sprung pivot and jewel movement
- Terminal covers supplied as standard
- EMC hard frequency meter are fully EMC and LVD compliant

Benefits

- Local indication
- Ease of installation
- Minimal training
- Low maintenance
- Customised options and features

Applications

- Switchgear
- Distribution systems
- Generator sets
- Control panels
- Energy management
- Building management
- Utility power monitoring
- Process controlMotor control

DIN Panel Meters - Long Scale

A range of 72mm and 96mm DIN style panel meters measuring all electrical parameters and featuring moving coil movements. All meters incorporate slide-in dials and terminal covers as standard. A range of customised options is available.

Movements

Moving Coil Meter

Centre cored, self shielding moving coil movement, using pivots, hairsprings and sprung jewels. Seven variations have been designed in movement ranges: all intermediate ranges are achieved by shunting the next lowest range. All DC voltmeters are 1000 ohms per volt, rectified product run at 900 ohms per volt. Millivolt meters use the 5 milliamp movement.

Frequency Meter

Meter uses a 100 microamps 4000 ohm movement driven by an EMC hard frequency conversion circuit.

Dials, Scales and Pointers

Standard dials are white matt with black printed scales and bar knife-edge pointers. Black dials with white or yellow scales and pointers are also available. Interchangeable slide-in dials are used on the E243 and E244 240° moving coil and frequency meter models.

Standard options include red supplementary pointers, and non-reflecting glass.

General Specifications

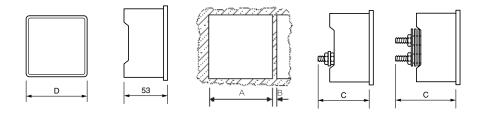
Performance. BSENGOUST Measuring ranges: DIN43701 Accuracy overload: BSEN60051 Dimensions: DIN43700 Scale marking generally to: DIN43802 Magnetic influence: BSEN60051 Safety: BSEN61010-1 Terminals: Clamp strap M4 for up to 25A. Clamp strap M8 for over 25A Humidity range: Up to 75% RH (non condensing) Test voltage @50Hz: 3kV RMS for 1 minute Overload AC current: x 1.2 continuous, or x 10 for 5 seconds max AC voltage and frequency: x 1.2 continuous, or x 2 for 5 seconds max Standard calibration: 23°C. Calibration at other temperatures available on request Operating temperature: -10°C to +55°C Damping time: Less than 3 seconds Enclosure code: IP52 as standard IP54 on request Case and base: Case and base: Grade UL94V0 (Lexan 500R) Case: Dimensions and panel cut out conform to IEC473, DIN43700. Case made from glass filled polycarbonate self-extinguishing and non drip in accordance with UL94V-O Bezel: Slim-line DIN43802, black as standard Bezel window: Standard sheet glass, with zero adjusters where appropriate	Derfermennen			
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Dimensions

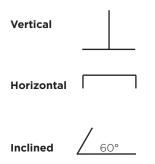
Moving coil measuring range		
6-60A	C=67mm	
>60A	C=78mm	

Dimensions

D	Α	В
72 x 72mm	68 x 68mm	4
96 x 96mm	92 x 92mm	4



DIN16257 symbol meaning for calibration position



Inclination of dial surface.

Required orientation must always be stated when ordering if other than vertical mounting is required.