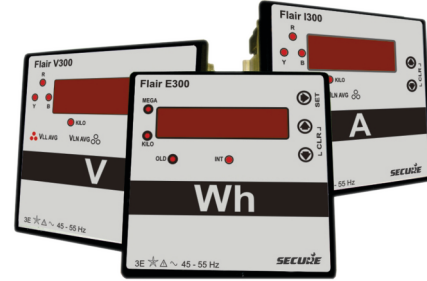


Flair Series

Single function digital panel meter

Digital indication of electrical parameters

The Flair Series is a range of single-function digital panel meters for accurate and reliable measurement of electrical quantities (including voltage, current, power, power factor, energy and frequency) for industrial and commercial applications. All models are compact, user friendly and easy to fit into standard panel cut-outs.



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

- Compact size: two Flair Mini meters will fit into a standard DIN 96 cut out
- Easy to fit and use
- Ideal replacement for analogue meters
- Fully digital, for high accuracy and repeatability
- Wide measurement range (e.g. from amps to kilo amps for ammeter)

Features

- Accuracy class 1.0 (0.5 available in Ammeter, Voltmeter, Frequency meter and Power Factor meter)
- True root mean square (RMS) measurement
- 7-segment LED display (6 digits for energy meter, 4 digits for all other models)
- Available in AC and DC variants
- Auxiliary power supply range 80 to 300 V AC
- Auto scaling for voltage, current, power and energy
- On-site CT/VT commissioning
- On-site set up for wiring configuration (3-phase 3-wire or 3-phase 4-wire)

Range of models

Parameter	AC single phase	AC three phase	DC
Current	I100	I300	I200
Voltage	V100	V300	V200
Active power	W100	W300	
Reactive power	R100	R300	
Power factor	P100	P300	
Frequency	F100		
Active energy (available with pulse output)		E300	



Technical specifications

Electrical

Auxiliary supply	80-300 V AC, 24V DC
Burden	Auxiliary supply: < 3 VA Measuring terminal: < 0.5 VA
Metrological accuracy	Class 1.0 (0.5 available in Ammeter, Voltmeter, Frequency meter and Power Factor meter)

Compliance

Standards*	Fully type tested: IS 13875
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Mechanical

Bezel size	96 x 96 mm
Panel cut out	92 x 92 mm
Enclosure	Polycarbonate
Terminals	Tag screw
Weight	0.3 kg (approx.)

Environmental

Protection class	IP 50 as per IEC 60529 IP 20 as per IEC 60259 (terminals)
EFT	Level: 2 kV Freq: 5 kHz EFT
ESD	Contact and air discharge: 8 kV
Temperature	-10 °C to +50 °C (operating) -25 °C to +70 °C (storage)
Humidity	95% non-condensing
Flame retardation	UL 94 VO

Measuring Range

Voltmeter (single/three phase)	Secondary: 0-415 V Primary: configurable through push-button up to kV range
Ammeter (single/three phase)	Secondary: 0-5 A Primary: configurable through push-button up to kA range
Frequency meter	45-65 Hz
Power meter (1P/3P active and 3P reactive)	0-415 V 0-5 A
Power factor	0.5 lag-1.0-0.5 lead (for nominal voltage and currents)
Energy meter	0-415 V 0-5 A
DC voltmeter	0-20 V, 0-300 V
DC ammeter	75 mV external shunt operated meters
Overload capacity	
Voltage	120% V_{nom}
Current	120% I_{nom}

Programming

CT/VT primary/secondary and wiring configuration	Configurable in field through keypad
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