

DIN SERIES - 48, 72, 96, 144

Beemet meters are designed to an internationally accepted standard. The dimensions comply with the requirements of DIN 43700 and scales with DIN 43802. The performance confirms to IS 1248-83/93. The cases are made of flame-retardant ABS plastic material which has high tracking index for maximum electrical strength and safety.

- Powerful and stable Alnico Magnets.
- Polished Carbon Steel Pivots.
- Jewelled Bearings for maximum accuracy.
- Phosphor Bronze Springs.
- Air tight and anti-static cases.

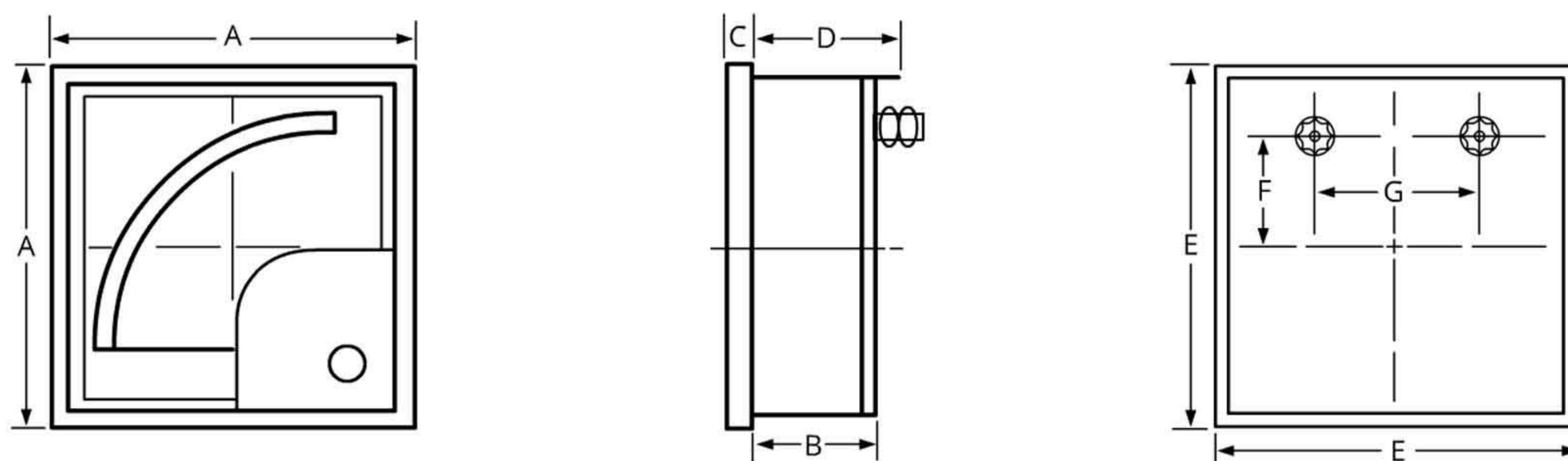


SALIENT FEATURES

- Compact in size (build in depth 33mm).
- Rugged movement ensures sustained accuracy and reliability.
- Square bezel permits edge to edge mounting, allowing maximum use of panel space.
- Interchangeable dial for range portability.
- Clear scaling for easy reading.
- Specially customised dials.
- Flame retardant case available as per request.

DIMENSIONS

SM-48, 72, 96, 144



Model	Dimensions (mm)								Scale Length
	A	B	C	D	E	F	G	Panel Cutout	
SM-48	48	33	6	40	42	-	18.5	43 X 43	40
SM-72	72	33	16	48	57	18	38	67 X 67	60
SM-96	96	33	6	48	102	30	40	91 X 91	90
SM-144	144	33	6	99	90	5	25	138X138	146

RANGE CHART

Model	Description	Ammeter Range	Voltmeter Range
SM-48, 72, 96, 144	DC Moving Coil	25 μ A – 60A, 1A – 10000A*	10mV – 600V
SIF-48, 72, 96, 144	AC Moving Iron	10mA – 100A, 1A – 10000A**	1V – 600V
CM-48, 72, 96, 144	AC Moving Coil Rectifier Type	1mA – 20A	1V – 600V

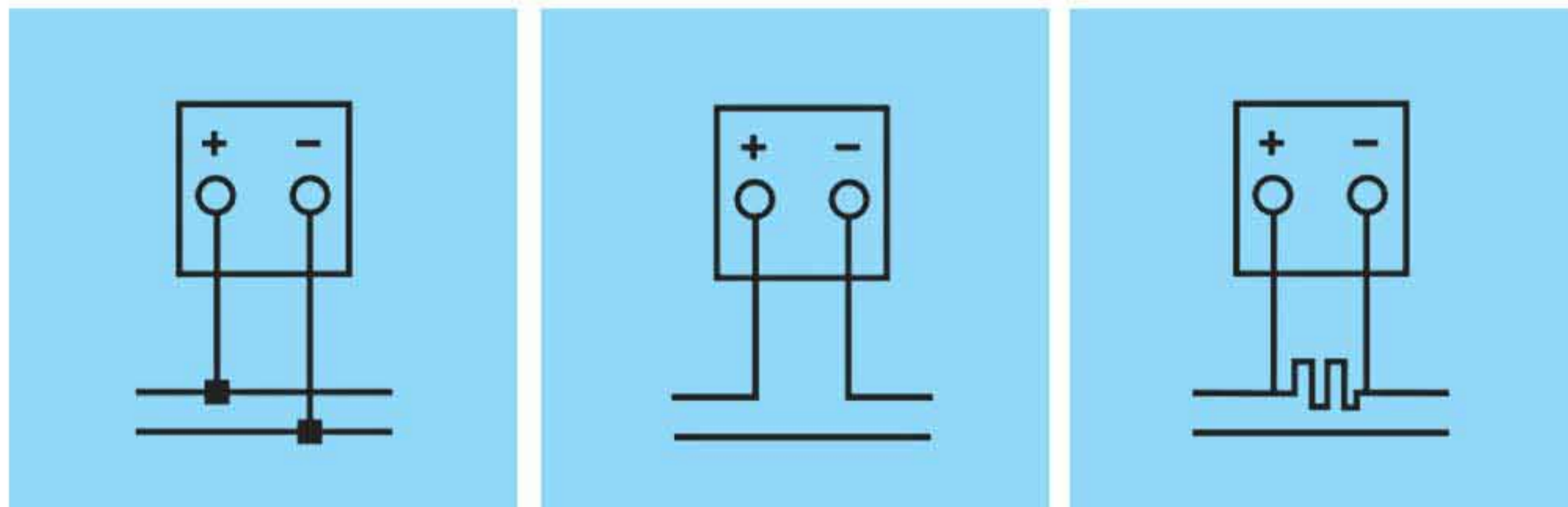
* With external Shunt ** With external CT

GENERAL SPECIFICATIONS

Accuracy Class	$\pm 1.5\%$ / 2.0 of F.S.D.
Measurable quantities	AC and DC Voltage or Current
Pointer deflection	0 - 90°
Frequency	50/60Hz
Sensitivity	1000 Ω /V (Voltmeter); 2000 Ω /V (Ammeter)
Overload capacity	According to IS: 1248 / IEC 51
Short duration for voltmeters	2 times for 5s: 1 overload 2 times for 0.5s: 9 overloads
Short duration for ammeters	10 times for 5s: 1 overload 10 times for 5s: 1 overload
Continuously	1.2 times rated voltage or current
Operating Temperature	-10 to 55°C
Storage Temperature	-25 to 65°C
Relative Humidity	< 75% annual average, non-condensing

WIRING DIAGRAM

DC Moving Coil Voltmeters and Ammeters:

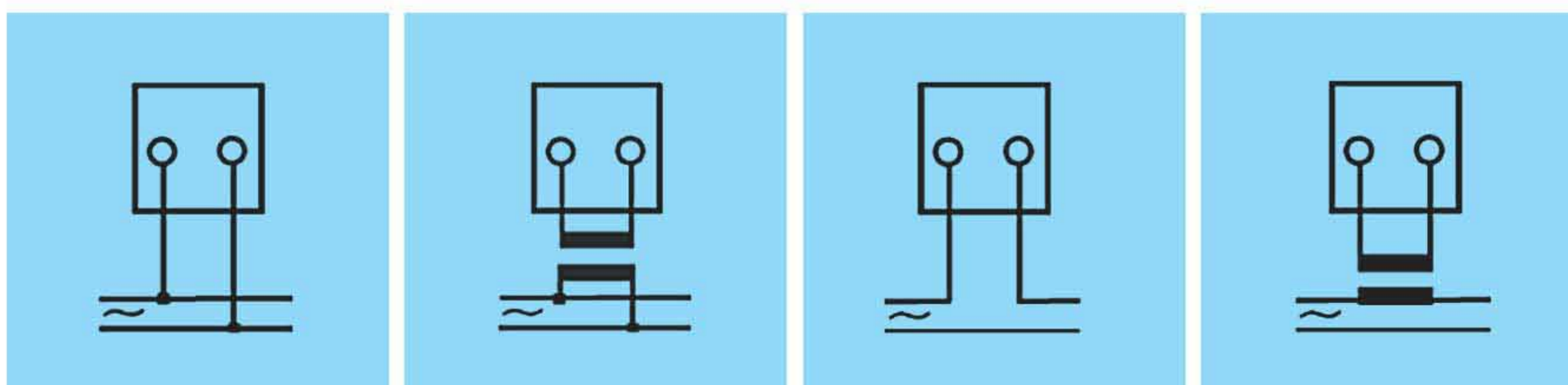


Voltmeter with direct connection

Ammeter with direct connection

Ammeter with shunt

AC Moving Coil Voltmeters and Ammeters:



Voltmeter with direct connection

Voltmeter with PT

Ammeter with direct connection

Ammeter with CT