

Rated Accuracy : ± 1.5% of F.S. for Watt & Var Meter (standard)
 ± 1.0% of F.S. for Watt & Var Meter(optional)
 ± 2° Phase Angle for Powerfactor Meter
 ± 1% of Full Scale for Frequency Meter

Test Voltage : 2.5KVAC for 1 min. @ 50 Hz, 4KV AC (optional)

Insulation Resistance : Over 20MΩ at 500V DC

Power Supply : Self-Powered

Casing : Size 72, 96, 144 ABS Case with Glass Front
 Size 110 ABS Case with Clear Polycarbonate Cover

Continuous Over Load : 1.2 Times Rated Current / Voltage

Deflection			90°			240°			
Size in mm			72x72	96x96	144x144	72x72	96x96	110x110	144x144
Scale Length (mm)			60	90	140	110	155	175	230
System	Current Range (Amp)	Voltage Range (Volt)							
			Watt Meters & Var Meters			Model Codes			
1 Phase 1 Element	1,5,10	63.5, 230	*72QW11 *72QV11	96QW11 96QV11	144QW11 144QV11	*72LW11 *72LV11	96LW11 96LV11	*110LW11 *110LV11	144LW11 144LV11
3 Phase 1 Element Balanced Load only	1,5,10	110, 440	*72QW31 *72QV31	96QW31 96QV31	144QW31 144QV31	*72LW31 *72LV31	96LW31 96LV31	*110LW31 *110LV31	144LW31 144LV31
3 Phase 2 Element [3 Wire] Balanced or Unbalanced Load	1, 5	110, 440	*72QW32 *72QV32	96QW32 96QV32	144QW32 144QV32	*72LW32 *72LV32	96LW32 96LV32	*110LW32 *110LV32	144LW32 144LV32
3 Phase 3 Element [4 Wire] Balanced or Unbalanced Load	1, 5	110/√3 440/√3	*72QW33 *72QV33	96QW33 96QV33	144QW33 144QV33	*72LW33 *72LV33	96LW33 96LV33	*110LW33 *110LV33	144LW33 144LV33
Powerfactor & Phase Angle Meter									
Single Phase	1, 5	63.5, 230	#72QF11	96QF11	144QF11	#72LF11	96LF11	110LF11	144LF11
3 Phase Balanced Load	1, 5	110, 440	#72QF31	96QF31	144QF31	#72LF31	96LF31	110LF31	144LF31
Frequency Meter									
40 - 60 Hz, 45 - 55 Hz, 45 - 65 Hz, 55 - 65 Hz, 360 - 440 Hz	NA	63.5, 110, 240, 440	F72	F96	F144	#FL72	FL96	FL110	FL144

Notes

- * These Meters supplied with DIN Series Power Line Transducers. # These Meters Supplied with External Box. (Refer Dimension Page, Drawing 5)
- Meters with Dual scale / Tripple scale stamping can be supplied. ● Rubber Gaskets for vibration protection available on request.
- Meters with centre zero or offset zero scale can be supplied. ● Other Voltage and Current ranges available subject to technical feasibility.

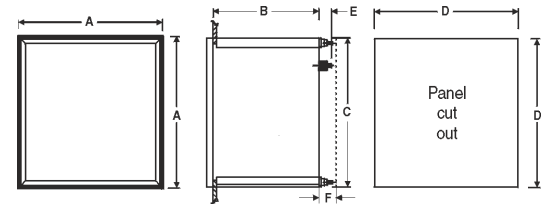
Ordering Information : Model, Input Voltage, Input Current, CTR / PTR, Scale, Accuracy Class

MODELS	SCALE LENGTH (mm)	REFER DRAWING	A	B	C	D	E	F	EXT. BOX # DRAWING
SQ72 (VOLTMETER & AMMETER UPTO 20A)	64	1	72	51.5	67	68	17	19	-
SQ72 (AMMETER ABOVE 20A)	64	1	72	51.5	67	68	23	19	-
M72,F72,C72, (72QF11,31)	60	1	72	37	66	68	13	19.5	5
72QW11,31,32,33, (72QV11,31,32,33)	60	1	72	37	66	68	13	19.5	4
72LW11,31,32,33, (72LV11,31,32,33)	110	1	72	37	66	68	13	22	4
ML72,MLC72 (Voltmeter),72LF11(#),72LF31(#),FL72(#)	110	1	72	37	66	68	13	22	-
MLC72 (Ammeter)	110	1	72	62	66	68	16	18	-
SQ96 (VOLTMETER & AMMETER UPTO 20A)	97	1	96	51.5	90	92	17	19	-
SQ96 (AMMETER ABOVE 20A)	97	1	96	51.5	90	92	23	19	-
M96 (Above 10A, E=18)	90	1	96	30	90	92	13	19.5	-
96QW11,31,32,33, (96QV11,31,32,33)	90	1	96	102	90	92	16	12	-
96LW11,31,32,33, (96LV11,31,32,33), 96LF11,31,FL96	155		-						
C96,96QF11,31,F96,M96 (4-20mA DC)	90	1	96	48	90	92	13	19.5	-
ML144,MLC144,144LF11,31,FL144	230	1	144	54	136	138	4	19	-
144QF11,31,F144	140	1	144	66	136	138	16	14	-
144QW11,31,32,33 (144QV11,31,32,33)	140	2	144	116	136	138	-	-	-
144LW11,31,32,33 (144LV11,31,32,33)	230	2	144	103	136	138	-	-	-
ML110,MLC110,110LF11,31,FL110	175	3	----As Per Drawing----						-
110LW,11,31,32,33, (110LV11,31,32,33)	175	3	----As Per Drawing----						4
ML96/MLC96 (Above 10A, E=18)	155	1	96	48	90	92	13	22	-

MODELS	SCALE LENGTH (mm)	REFER DRAWING	A	B	C	D	E	F	G	H	I	J	L	O	R	EXT. BOX # DRAWING
MR60,CR60	57	6	60	60	33	24	48	48	51.5	12	-	-	54	4BA	4.5	5 (CR60)
MR65,CR65	68	6	81	81	33	22	64	64	64	12	-	-	67	4BA	4.5	5 (CR65)
MR100,CR100	80	6	100	80	34	21	84	64	63	12	-	7	67	4BA	4.5	5 (CR100)
MR120,CR120	96	6	120	100	38	25	100	80	65	12	-	16	67	4BA	4.5	5 (CR120)

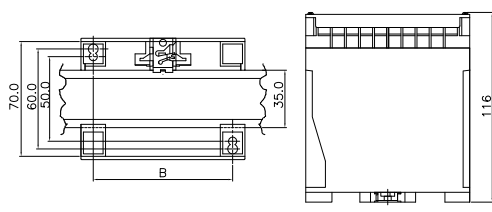
Dimensions (mm)

1

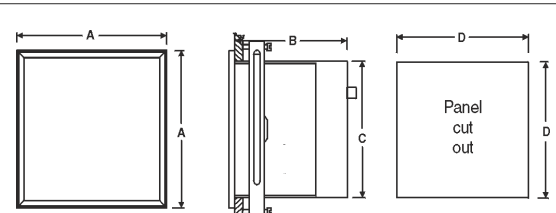


4 Dimension of DIN Series Power Line Transducers

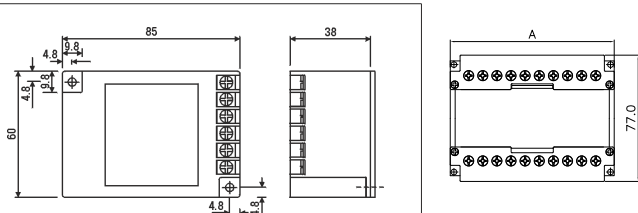
Case Size	A	B
I	75	60
II	100	85
III	150	135



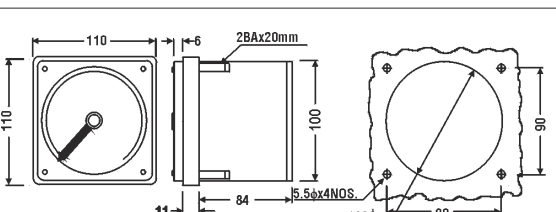
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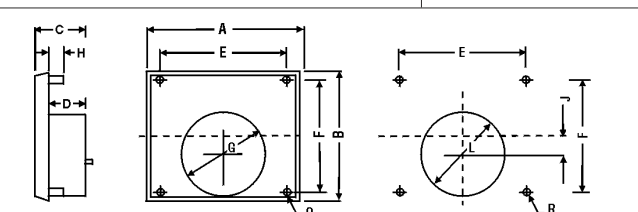
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Note : # For ranges greater than 100 mA & upto 5A AC use Models CR60, CR65, CR100, CR120, 72LF11,72LF31,FL72 & C72 with External CT Box supplied with the instruments (Drawing 5).