Selection Guide

BROSE Systeme

Meters for current and voltage measurement

Type	Display range	Dimensions wxhxd / mm	Supply AC	Supply DC	Measure ranges	Display	Sensor supply	Memory function	Analog output	Interfaces	Limit control
PM480	+9999... -1999	48 x 24 x 96	21 ...58 V, 85 ...265 V	10.5 ...70 V, 100 ...300 V	100 mV, 10/20 V, 200 V, 20 mA DC	10 mm LED	–	–	–	–	–
PM821	±19999	96 x 24 x 74	–	5 V	2 V,... 200 V, 20 mA, 200 mA DC	14 mm LED	–	hold	–	–	–
PM880	±1999	96 x 48 x 128	–	self-powered	4...20 mA DC	13 mm LCD	from current loop	–	–	–	1 x opto-coupler
PM900	±1999	96 x 24 x 74		5 V	200 mV, ...20 V, 20 mA DC	14 mm LED	–	–	–	–	–
PM920	±19999	96 x 48 x 128	230/115/110 V 50/60 Hz	5...30 V galv. isol.	200 mV, ... 700 V, 0/4...20 mA, 200 mA DC	14 mm LED	12 V DC	hold	–	BCD-bus	–
PM926	±1999	96 x 48 x 128	230/115/110 V 50/60 Hz	5...30 V galv. isol.	200 mV, ...700 V, 0...20 mA, 200 mA **DC**	14 mm, 20 mm LED	12 V DC	hold	–	–	–
PM945 (RM45)	±19999	96 x 48 x 128	230/115/110 V 50/60 Hz	9...36 V galv. isol.	200 mV, ...200 V, 0/4...20 mA DC	14 mm LED	12 V DC	hold, max, min, tare	10 V, 0/4...20 mA optoisol.	BCD-bus, RS-232/422/485 optoisol.	2 x relay double-throw
PM1026	±1999	96 x 48 x 128	230/115/110 V 50/60 Hz	5...30 V galv. isol.	200 mV,...200/500 V, 0/4...20 mA, 200 mA **DC or TRMS**	14 mm LED	12 V DC	–	10 V, 0/4...20 mA	–	–
PM1076	± 99999	96 x 48 x 128	230/115/110 V 50/60 Hz	9...36 V galv. isol.	1000 mV,...10 V, 0/4...20 mA DC	14 mm LED	12 V DC	hold, max, min, tare	10 V, 0/4...20 mA optoisol.	BCD-bus, RS-232/422/485 optoisol.	2 x relay double-throw

grey text = Not recommended for new designs

Meters for temperature measurement

Type	Display range	Dimensions wxhxd / mm	Supply AC	Supply DC	Sensors	Display	Sensor supply	Memory function	Analog output	Interfaces	Limit control
PM929 (RM29)	-200.0 °C ...+2320 °C	96 x 48 x 128	230/115/110 V 50/60 Hz	9...36 V galv. isol.	Pt100, Pt1000, thermo Typ J, K, S, R, C	14 mm LED	from meter	hold, max, min, tare	10 V, 0/4...20 mA optoisol.	BCD-Bus, RS-232/422/485 optoisol.	2 x relay double-throw

Meters for resistance and strain gage measurement

Type	Display range	Dimensions wxhxd / mm	Supply AC	Supply DC	Measure ranges	Display	Sensor supply	Memory function	Analog output	Interfaces	Limit control
PM946 (RM46)	±19999	96 x 48 x 128	230/115/110 V 50/60 Hz	9...36 V galv. isol.	2 Ω, ...200 kΩ, strain gage	14 mm LED	from meter	hold, max, min, tare	10 V, 0/4...20 mA optoisol.	BCD-bus, RS-232/422/485 optoisol.	2 x relay double-throw

Meters for pulse measurement as frequency, rotations speed, speed etc.

Type	Display range	Dimensions wxhxd / mm	Supply AC	Supply DC	Measure ranges	Display	Sensor supply	Memory function	Analog output	Interfaces	Limit control
PM966 (RM66)	±19999	96 x 48 x 128	230/115/110 V 50/60 Hz	9 ...36 V galv. isol.	0.1 ...10000 Hz	14 mm LED	12 V DC	hold, max, min, tare	10 V, 0/4...20 mA optoisol.	BCD-Bus, RS-232/422/485 optoisol.	2 x relay double-throw

Rail outed meters

Type	Display range	Dimensions wxhxd / mm	Supply AC	Supply DC	Measure ranges / Sensors	Display	Sensor supply	Memory function	Analog output	Interfaces	Limit control
RM29	-200.0 °C ...+2320 °C	105 x 86 x 58	230/115/110 V 50/60 Hz	9...36 V galv. isol.	Pt100, Pt1000, thermo Typ J, K, S, R, C	14 mm LED	from meter	hold, max, min, tare	10 V, 0/4...20 mA optoisol.	RS-232/422/485 optoisol.	2 x relay double throw
RM45	±19999	105 x 86 x 58	230/115/110 V 50/60 Hz	9...36 V galv. isol.	200 mV, ...200 V, 0/4...20 mA	14 mm LED	12 V DC	hold, max, min, tare	10 V, 0/4...20 mA optoisol.	RS-232/422/485 optoisol.	2 x relay double throw
RM46	±19999	105 x 86 x 58	230/115/110 V 50/60 Hz	9...36 V galv. isol.	2 Ω, ...200 kΩ, strain gage	14 mm LED	from meter	hold, max, min, tare	10 V, 0/4...20 mA optoisol.	RS-232/422/485 optoisol.	2 x relay double throw
RM66	±19999	105 x 86 x 58	230/115/110 V 50/60 Hz	9...36 V galv. isol.	0.1 ...10000 Hz	14 mm LED	12 V DC	hold, max, min, tare	10 v, 0/4...20 mA optoisol.	RS-232/422/485 optoisol.	2 x relay double throw

Panel meter as a second display

Type	Display range	Dimensions wxhxd / mm	Supply AC	Supply DC	Measure ranges	Display	Sensor supply	Memory function	Analog output	Interfaces	Limit control
PM984	±19999	96 x 48 x 128	230/115/110 V 50/60 Hz	5...30 V galv. isol.	—	14 mm LED	12 V DC	hold, max, min, tare	10 V, 0/4...20 mA	RS-232/422/485 optoisol.	2 x relay double throw

Transducer / isolating amplifier for rail mounting (3-way isolation)

Type		Dimensions wxhxd / mm	Supply AC	Supply DC	Measure ranges	Display	Sensor supply	Memory function	Analog output	Interfaces	Limit control
TM551 TM552		25 x 79 x 85	20... 253 V AC	20... 253 V DC	60 mV, ...500 V, 1 A, 5 A **TRMS**	—	—	—	10 V, 0/4...20 mA	—	—
TM511 TM522		25 x 79 x 85	20... 253 V AC	20... 253 V DC	60 mV, ...500 V, 1 A, 5 A **DC**	—	—	—	10 V, 0/4...20 mA	—	—

Accessories

Shunts from 1 A to 10000 A
IP65 front protective cover for case 96x48 mm
Table housing for case 96x48 mm
Factory, external lab or DKD calibration certificate

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