

SPECIFICATIONS:

Models	PEL102	PEL103
Display	Without	Triple digital display
Installation types	Single-phase, split-phase, three-phase with or without neutral and many other specific configurations	
Number of channels	3 voltage inputs / 3 current inputs (calculation of neutral current)	
Measurements		
Network frequency	50 Hz, 60 Hz & 400 Hz	
Voltage (measurement ranges / best accuracy)	10.00 -1,000 V _{AC/DC}	/ ± 0.2 % + 0.5 V
Current (depending on sensor) (measurement ranges / best accuracy)	5 mA _{AC} to 10 kA _{AC} / 50 mA _{DC} to 1.4 kA _{DC} / ±0.5 %	
Calculated measurements		
Ratio	Up to 650,000 V / up to 25,000 A	
Power	10 W to 10 GW / 10 var to 10 Gvar / 10 VA to 10 GVA	
Energy	up to 4 EWh / 4 Evarh / 4 EVAh (E = 10 ¹⁸)	
Phase	cos φ, tan φ, PF	
Harmonics	up to the 50th order	
Complementary functions		
Phase order	Yes	
Min / Max	Yes	
Mounting	Magnet, hook	
Recording		
Sampling / Acquisition rate / Aggregation	128 S/period - 1 measurement per second - from 1 min to 60 min	
Memory	SD card 2 GB (SD-HC up to 32 GB)	
Communication	Ethernet, Bluetooth and USB	
Power supply	110 V - 250 V (+10 %, -15 %) at 50-60 Hz & 400 Hz	
Safety	IEC 61010 600 V CAT IV – 1,000 V CAT III	
Mechanical Specifications		
Dimensions	256 x 125 x 37 mm without sensor	
Weight	900 g	950 g
Casing	IP54, UL (pending)	



Models	MN93	MN 93A	MA193-250	MA193-350	PAC93	A193-450	A193-800	C193	E3N	J93/J193
Measurement range	500 mA to 200 A _{AC}	0.005 A _{AC} to 100 A _{AC}	200 mA to 10 kA _{AC}	200 mA to 10 kA _{AC}	1 A to 1,000 A _{AC} 1 A to 1,300 A _{DC}	200 mA to 10 kA _{AC}	200 mA to 10 kA _{AC}	1 A to 1,000 A _{AC}	50 mA to 10 A _{AC/DC} 100 mA to 100 A _{AC/DC}	50 A to 3,500 A _{AC} 50 A to 5,000 A _{DC}
Clamping Ø / length	20 mm	20 mm	Ø 70 mm / 250 mm	Ø 70 mm / 350 mm	1 x Ø 39 mm 2 x Ø 25 mm	Ø 140 mm / 450 mm	Ø 250 mm / 800 mm	52 mm	11.8 mm	72 mm
IEC 61010	600 V CAT III / 300 V CAT IV		1,000 V CAT III / 600 V CAT IV	1,000 V CAT III / 600 V CAT IV	600 V CAT III / 300 V CAT IV	1,000 V CAT III / 600 V CAT IV		600 V CAT IV	600 V CAT III / 300 V CAT IV	600 V CAT III / 1,000 V CAT IV