Product data sheet
Characteristics

METSEPM5350
power and energy meter PowerLogic PM5350 with THD, alarming



Main

Range	PowerLogic
Product name	PowerLogic PM5350
Product or component type	Power meter
Device short name	PM5350

Complementary

Power quality analysis	Total demand distortion total harmonic distortion
Device application	Power monitoring
Type of measurement	Current Voltage Frequency Power factor Energy Apparent power Active power Reactive power
[Us] rated supply voltage	85...265 V AC 45...65 Hz 100...300 V DC
Network frequency	50 Hz 60 Hz
[In] rated current	5 A 1 A
Poles description	1P + N 3P + N 3P
Maximum power consumption in VA	11.9 VA
Ride-through time	100 Ms 120 V AC typical 400 Ms 230 V AC typical 50 Ms 125 V DC typical
Display type	Monochrome graphic LCD
Display resolution	6 lines
Sampling rate	32 samples/cycle
Measurement current	5…9000 MA
Analogue input type	Current 0.05...9 A (impedance <= 0.3 mOhm) Voltage (impedance 10 MOhm)
Measurement voltage	35…480 V AC 45...65 Hz phase to phase 20…277 V AC phase to neutral
Frequency measurement range	45…70 Hz
Number of inputs	4 digital

Measurement accuracy	Current +/- 0.3 % Voltage +/- 0.3 % Frequency +/- 0.05 % Power factor +/- 0.005 Active energy +/- 0.5 % Reactive energy +/- 2 % Active power +/- 0.5 % Apparent power +/- 0.5 % Apparent energy +/- 0.5 % Reactive power +/- 2 %
Accuracy class	Class 0.5S active energy conforming to IEC 62053-22 Class 0.5 active energy conforming to IEC 61557-12 Class 2 reactive energy conforming to IEC 62053-23 Class 2 reactive energy conforming to IEC 61557-12 Class 0.5 power conforming to IEC 61557-12
Number of outputs	2 relay
Communication port protocol	JBUS Modbus RTU and ASCII at 9.6, 19.2 and 38.4 kbauds
Communication port support	Terminal block: RS485
Data recording	Min/Max of instantaneous values Alarms
Connections - terminals	Voltage circuit: screw terminal block4 Control circuit: screw terminal block2 Current transformer: screw terminal block6 Input/Output circuit: screw terminal block6 Relay output: screw terminal block4
Mounting mode	Flush-mounted
Type of installation	For indoor use in a stationary panel
Standards	IEC 61010-1
Product certifications	CE[RETURN]CULus
Width	96 Mm
Depth	44 Mm
Height	96 Mm
Net weight	0.25 Kg

Environment

Electromagnetic compatibility	Limitation of voltage changes, voltage fluctuations and flicker in low-voltage conforming to IEC 610 Electrostatic discharge conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 1.2/50 µs shock waves immunity test conforming to IEC 61000-4-5 Conducted RF disturbances conforming to IEC 61000-4-6 Immunity to impulse waves conforming to IEC 61000-4-12 Conducted and radiated emissions class A conforming to EN 55011 Limits for harmonic current emissions conforming to IEC 61000-3-2
Overvoltage category	III
IP degree of protection	IP30 rear: conforming to IEC 60529 IP54 display: conforming to IEC 60529
Relative humidity	5…95 % at 50 °C non-condensing
Pollution degree	2
Ambient air temperature for operation	-25…70 °C meter -20…70 °C display -25…-20 °C (with reduced performance) display
Ambient air temperature for storage	-40…85 °C
Operating altitude	<= 3000 m

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.200 Cm
Package 1 Width	12.500 Cm
Package 1 Length	12.700 Cm
Package 1 Weight	346.000 G
Unit Type of Package 2	S03
Number of Units in Package 2	12

Package 2 Height	30.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	4.829 Kg

Offer Sustainability

Recyclability potential, in %	5
Total lifecycle Carbon footprint	154 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	7.006503733108921
Carbon footprint of the manufacturing phase [A1 to A3]	7 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.1980474313008519
Carbon footprint of the distribution phase [A4]	0.2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.2486747197146317
Carbon footprint of the installation phase [A5]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	146.226728779445
Carbon footprint of the use phase [B2, B3, B4, B6]	146 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.6824836586448261
Carbon footprint of the end-of-life phase [C1 to C4]	0.7 kg CO2 eq.
Recyclability	Product designed for enhanced end-of-life management and recycling
Total lifecycle Carbon footprint	154
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
SCIP Number	A625a530-88d0-44af-8a48-7177db082926
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
PVC free	Yes
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised