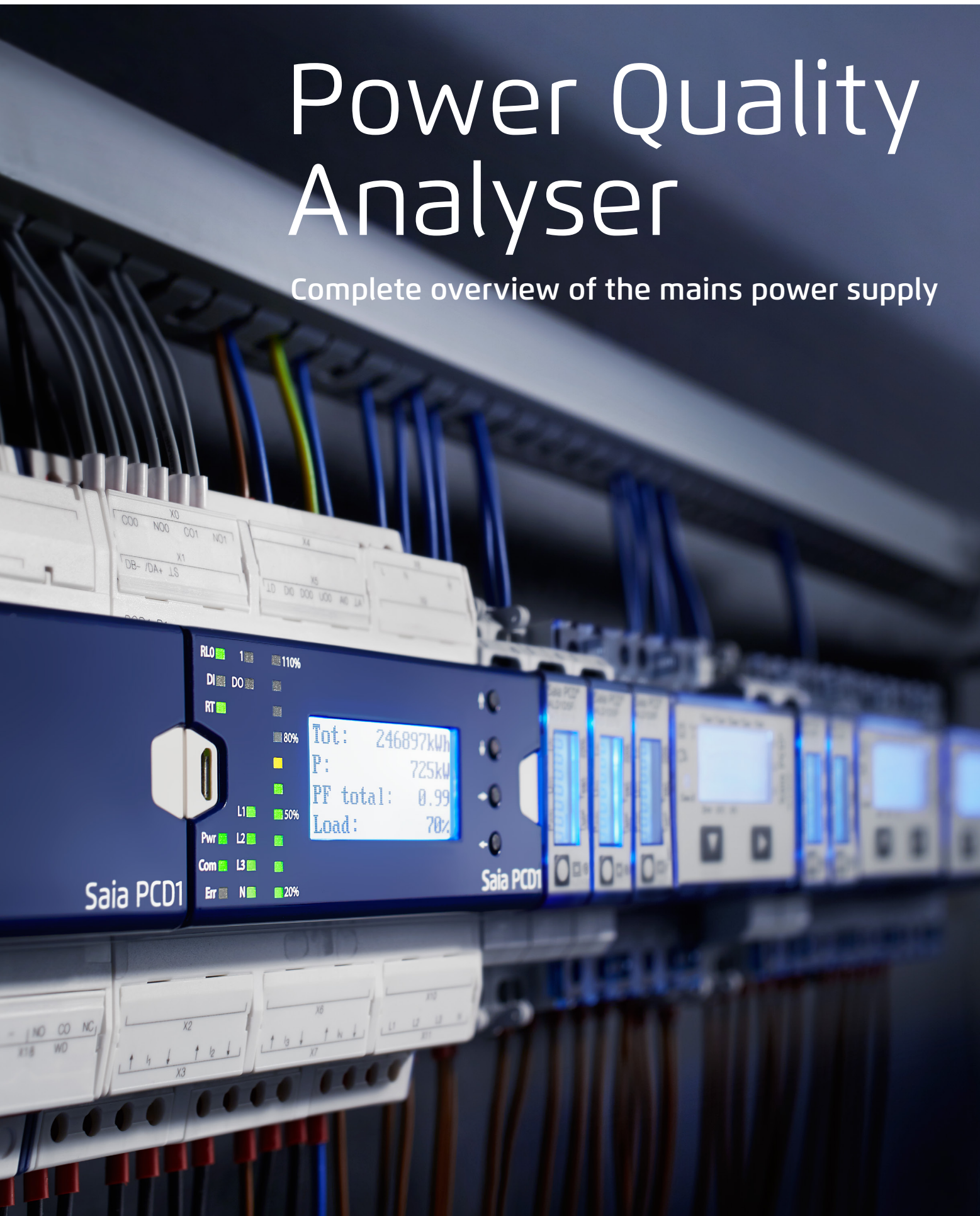


Power Quality Analyser

Complete overview of the mains power supply





Keep full control of mains power quality

The power quality analyser lets you fully monitor the quality of the mains power supply. This premium product, made in Switzerland, is a DIN rail meter in industrial quality. The compact construction in electrical control cabinet format helps save space when installed in electrical junction boxes. The wide range of measuring options – including voltage, current, phase shift and harmonics – lets you analyse all kinds of disturbances with cyclical or event-based data recording. The system also issues an automatic notification should one of the measured values lie outside the parameterised limits.



LED status display

The PCD1.P1001 Power Quality Analyser from SBC displays the state of the power supply using LED lights on the front panel. This means you can spot faults immediately and check the status of the inputs and outputs. The bar display also provides information about the overall energy load of the analyser.



Compact, space-saving design for installation in electrical control cabinets

The extremely compact design of the E-Line housing allows you to fit the analyser in tight spaces right next to the energy meters. You can also use cost-effective electrical sub-distributors in line with DIN 43880.



1.9" LCD screen for immediate analysis

The integrated LCD screen allows you to read the measurement values directly from the device. The analyser's buttons let you access the measurement values and navigate the parameters menu. With the backlit screen, you can read values even in poor light inside the control cabinet.



Easy wiring and commissioning

The digital part of the power quality analyser is equipped with modern push-in terminals. Wiring is quick and efficient, with no need for tools. Screwed terminals for cable cross-sections of up to 2.5 mm² are used for the measurement inputs with mains voltage.



Quick integration thanks to prefabricated FBoxes and templates

With the FBox libraries and the Saia PG5 Web Editor Templates, programming is much faster and easier. This makes the engineering more efficient, reduces the time required, and makes the procedure far less vulnerable to errors.

« Monitoring mains power quality reduces both production downtimes and negative effects on machinery service life. »»

Pascal Hurni
Product Manager Energy

General data and applications

Supply voltage	110...230 VAC, +15/-20%; L, N, PE
Communication	RS-485 (S-Bus/Modbus) with galvanic isolation Bit rate: 4,800, 9,600, 19,200, 38,400, 57,600, 115,200 bps
Terminals	Screwed terminals, push-in spring-loaded terminals
Measurement inputs	Voltage; L1, L2, L3, N (L-N: max. 700 VAC) Current; per phase (L1, L2, L3) and neutral wire
Inputs and outputs	1× digital input 24 VDC, high active 1× analogue input (Pt1000/Ni1000) 1× digital output 24 VDC 2× relay outputs, NO, 5 A ohmic load
Terminator box	Integrated, can be activated via the display and interface
Ambient temperature	Operation: -25 °C...+55 °C Storage: -30 °C...+70 °C
Product standard	IEC 61557-1 Electrical safety in low voltage distribution systems up 1000 VAC and 1500 VDC

Order information

Type	Interfaces	Digital input	Relays	Analogue input	DO	Power supply
PCD1.P1001-J30 Power Quality Analyser	1 (S-Bus/Modbus)	1	2	1	1	110...230 VAC

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