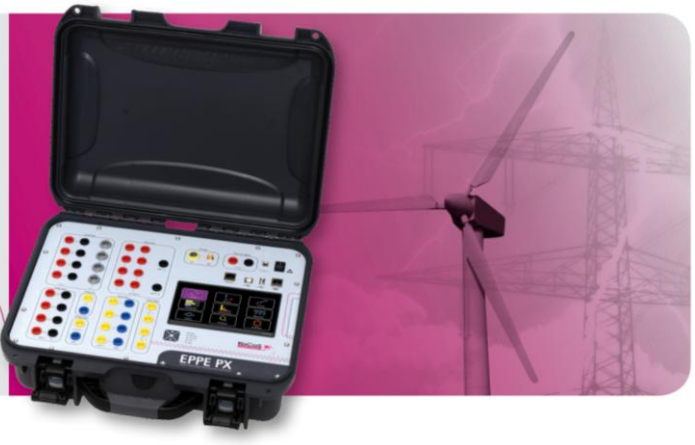
EPPE PX.

SPECIFICATIONS



General description	EPPE PX is a portable, high-precision power quality analyser with integrated fault recorder in a rugged carrying case. Sensor inputs, direct inputs for current measurement and galvanically isolated voltage inputs make the device extremely flexible to use.		
	Multi-processor system	Digital signal processor (DSP), 32 bit, 330 MHz for processing signals and processes in real time	
		Communication processor, dual-core 32 bit, 1 GHz for mass data storage, simultaneous data communication using different interfaces, web server functionality and stand-alone operation	
	User controls and displays	5 status LEDs for trigger and status display	
		7" colour graphical display with touch screen and 4 function keys	
	Data memory	2 GB flash RAM for measurement data	
		512 MB flash RAM for firmware	
	Calibration	Software-controlled calibration	
		Recommended calibration cycle: check every 5 years	
	Operating software	EPPE operating software for Windows 7, 8.1, 10 (32 and 64 bit)	
Function overview	Recording functions	Power quality analyser, class A	
		Continuous data recording	
		Event data recording	
		Digital fault recorder, sampling rate from 100 Hz…30 kHz	
		RMS fault recorder, sampling rate from 1 Hz…120 Hz	
		Sensor recording	
		Energy meter	
		Logical functions	
	Standards for measurement and analysis	IEC 61000-4-30 class A	
		IEC 61000-4-7 harmonics and interharmonics	
		IEC 61000-4-15 flicker	
		EN 50160, IEEE 519, IEEE 1159	
Analog inputs	General information	Resolution	16 bit
		Sampling frequency	200 kHz per channel (physical)
		Accuracy	0.05% of range
		Protection	Galvanic isolation, Ph-PE > 2.5 kV RMS
		Safety class	600 V CAT III; 300 V CAT IV
	Voltage inputs	Number	4
		Measuring range	600 VAC/±848 VDC
		Impedance	6.6 MΩ
		Frequency range	DC…10 kHz
	Current inputs	Number	4
		Measuring range	32 AAC
		Impedance	≤0.1 mΩ
		Overload	100 AAC for max. 3 s 500 AAC for max. 1 s
		Frequency range	10 Hz…3.2 kHz

	Current sensor inputs	Number	4
		Measuring range	3 V
		Frequency range	DC…10 kHz
	Measurement connections	4 mm safety sockets and multi-pole system sockets	
Sensor inputs		Number	4, sampling frequency 10 kHz
		Accuracy	0.05 %
		Measuring range	7.07 VAC / +- 10 VDC Optional: 4…20 mA (adapter)
Temperature input		Number	1, sampling frequency 100 Hz
		Sensor type	Pt 1000
		Measuring range	-20°C…80°C
Analog output		Number	1
		Output range	0…10 VDC
Binary inputs		Number	8 (2 groups with separate reference points)
		Activation range	24…300 VDC (wide-range inputs)
		Resolution	0.1 ms
		Protection	Transient protection, polarity protection, galvanic isolation up to 3.75 kV
Binary outputs	Relays	Number	2, configurable for status and alarm signals
		Contact type	Potential-free relay contact as NO contact
		Switching capacity	Max. 220 VDC, 2 ADC, 60 W resistive load
Time synchronisation	Standard equipment	Internal real-time clock	Accuracy 2.5 ppm without external time synchronisation
		NTP/SNTP	Synchronisation over Ethernet network
		Interlink interface	Master-slave time synchronisation between several EPPE devices
		GPS receiver	Internal GPS receiver with SMA antenna connection
		DCF 77 input	DCF 77 pulse telegram input for connection to the KoCoS DCF antenna module
Interfaces	Standard equipment	Data communication	1 x 10/100 Mbit Ethernet (RJ 45) 1 x USB-A, 1 x USB-B
		Interlink interface	Interface for networking a number of EPPE devices, enables cross-triggering and master-slave time synchronisation
Power supply		External power supply unit	100…240 VAC (100…350 VDC), 47…63 Hz
		Operating voltage	9…18 VDC
		Wattage	Max. 25 VA
		Emergency power supply	Internal, maintenance-free back-up for at least 8 s
	Device connection	Output voltage	9…18 VDC (power supply: sensors, UMTS router, etc.)
Complete system	Mechanical properties	Weight	5.8 kg
		Housing	Carrying case made of polycarbonate, waterproof
		Protection class	IP 65 (closed)
		Dimensions (W x H x D)	424 x 340 x 173 mm
	Environment	Storage temperature	-20…70°C
		Operating temperature	-5…50 °C, minimum switch-on temperature 0°C
		Relative humidity	5…90%, non-condensing
	Generic standards	Safety	EN 61010-1, 300 V CAT IV, 600 V CAT III
		EMC emissions	EN 61000-6-4 (replaces EN 50081-2)
		Susceptibility	EN 61000-6-2 (replaces EN 50082-2)