

MONITORING SYSTEM FOR DISTRIBUTION NETWORKS

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Monitoring System consisting of three Lindsey Brand Voltage-Current Sensors and a PTS180 control cubicle for signal processing. EPRECSA brand.			
Electrical characteristics of the current and voltage sensor			
Rated system voltage (kV)	13.8	23	34.5
Basic insulation level - BIL (kV)	110	150	200
Creepage distance (mm)	401	622	927
Dry Arc Distance (mm)	224	320	437
Average height (mm)	335	422	554
Withstand voltage at 60Hz 1 min (kV)	34	40	50
Corona - extinction (kV)	11	19	26
Dry flashover voltage at 60 Hz (kV)	70	100	125
Wet flashover voltage at 60 Hz (kV)	50	70	95
Voltage transformation ratio (V)	1400:1 V	2200:01.00	3300:01.00
Current Transformation Ratio (V)	600 A: 10		
Multifunctional three-phase power meter	Events / Data Logging		
Accuracy class: 0.2S	Built-in 256MB log memory.		
Monitored parameters:	Synchronized waveforms from multiple devices on a single screen through PAS software.		
Voltage, Current, Power, Energy, Power Factor, Demand, Frequency, Voltage/Current Imbalance, Load Profile			
AC Power:	Power quality events with waveforms.		
127-240 Vac			
Failure log:	Recording of multiple parameters with real-time stamping.		
Pre and post failure registration.			
Calculation of fault distance.			
Bug report.			
Supports up to 48 fast digital inputs.			
Sequence of events recording with 1 ms accuracy			
Advanced Power Quality Analysis	Communication ports and protocols		
Power quality according to IEC 61000-4-30 Class A	Standard ports: Ethernet, USB, RS-232/485. Optional Ports: IR, front USB, Fiber optic, RS-422/485		
Power quality analysis, statistics and reports in accordance with IEEE1159, EN50160, GOST 13109 or GOST 32144-2013			
Detection and recording of Sags/Swells			
Interrupt detection and logging	Standard protocols: Modbus RTU, ASCII, Modbus/TCP, DNP3.0, DNP3/TCP, IEC 60870-5-101 and -104 Optional Protocols: IEC 61850 (MMS and Messaging)		
Harmonics and inter-harmonics according to IEC 61000-4-7			
THD of voltage and current, TDD of current and K factor			
Flicker measurement according to IEC 61000-4-15			
Detection and recording of high-speed transients such as 17 µs @ 60Hz / 20 µs @ 50Hz			

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