Power Quality and Energy Measurement

BENDER

		Linetraxx PEM330	Linetraxx PEM333	Linetraxx PEM533	Linetraxx PEM555	Linetraxx PEM575	Linetraxx PEM735
Standards	Accuracy class acc. to IEC 62053-22	0.5 S	0.5 S	0.5 S	0.5 S	0.2 S	0.2 S
	DIN EN 50160	-	-	-	-	-	■
	DIN EN 61000-4-7, DIN EN 61000-4-15, DIN EN 61000-4-30	-	-	-	-	-	■
Measurement quantities	Phase conductor voltages / line conductor voltages	■	■	■	■	■	■
	Phase currents	■	■	■	■	■	■
	Neutral current I_4				■	■	■
	Neutral current I_4 (calculated)	■	■	■	■	■	■
	Frequency/phase angle	■	■	■	■	■	■
	Reactive and active power import/ Reactive and active power export	■	■	■	■	■	■
	Voltage unbalance/current unbalance	■	■	■	■	■	■
	Power	Per phase and total S in kVA, P in kW, Q in kVAr					
	Displacement factor cos (φ) / Power factor λ	■	■	■	■	■	■
	Total harmonic distortion (THD_U/THD_I)	up to the 15th	up to the 15th	up to the 31st	up to the 31st	up to the 63rd	up to the 63rd
	Harmonic components voltage	-	-	up to the 31st	up to the 31st	up to the 63rd	up to the 63rd
	Harmonic components current	-	-	up to the 31st	up to the 31st	up to the 63rd	up to the 63rd
	Transient detection	-	-	-	> 80 µs	> 80 µs	> 40 µs
	Overvoltage (swell)	-	-	-	-	■	■
	Undervoltage (sag)	-	-	-	-	■	■
	Flicker severity P_{ST}	-	-	-	-	-	■
Features	Digital inputs	-	2	6	6	6	8
	Digital outputs	-	2	2	3	3	3
	Voltage supply	AC 95...260 V (47...440 Hz)/DC					
	Sampling rate	1.6 kHz	1.6 kHz	3.2 kHz	6.4 kHz	12.8 kHz	25.6 kHz
	Temperature	-25...+55°C					
	Communication	-	Modbus RTU	Modbus RTU	Modbus RTU & TCP	Modbus RTU & TCP	Modbus RTU & TCP

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