

KEM

KOSTAL Energy Meter



Smart connections.

Data sheet

Technical data KOSTAL Energy Meter

		KOSTAL Energy Meter ¹
System data	Compatible with (KEM can only be operated with one inverter)	PIKO IQ / PLENTICORE plus / PLENTICORE BI
	Rated voltage	V max. 208/415 V~
	Operating voltage	V 120/240 V~
	Frequency range	Hz 50/60
	Power consumption	<1.3 W / 2.6 VA
	Current inputs - base current (I _b)	A 5
	Current inputs - minimum current (I _{min})	A 0.25
	Current inputs - maximum current (I _{max})	A 65
	Current inputs - starting current (I _{st})	mA 20
	Current inputs - Overload For 10 ms	30 I _{max} (1950 A)
	Current inputs - input impedance	VA < 3.4
	Current inputs - Peak factor Peak factor	4 (I _{max} peak 92A)
	Digital output	V _{ON} 2.5 V ac/dc, max 100 mA. V _{OFF} 42 V ac/dc
	Digital input	Contact for voltage measurement: 5 V DC +/- 5%. Contact for current measurement: 5 mA max.
	Overvoltage category	III
Pollution degree	2	
Directives/Standards	EMV, LVD, EN 62052-11, EN 61010-1	
Measurement accuracy ²	Current	From 2 A to 65 A: ± 0,5% rdg / From 0,5 A bis 2 A: ± 1% rdg
	Phase to phase voltage	From U _n min. -20% to U _n max. +15% : ± 0,5% rdg
	Phase to neutral voltage	From U _n min. -20% to U _n max. +15%: ± 0,5% rdg
	Active and apparent power	From 1-65 A (PF=0,5L - 1 - 0,8C): ± 1% rdg From 0,5-1 A (PF=1) ± 1,5% rdg
	Reactive power	Von 1-2 A (sinΦ=0,5L - 0,5C) and from 0,5-1 A (sinΦ=1): ± 2% rdg Von 2-65 A (sinΦ=0,5L- 0,5C) and from 1-65 A (PF=1): ± 2,5% rdg
	Active energy / reactive energy	Class 1 (EN62053-21) / Class 2 (EN62053-23)
	Frequency	From 45 to 65 Hz: ± 0,1% rdg
Mechanical data	Enclosure material	Housing: PBT Transparent cover: polycarbonate
	Mounting	DIN rail (3-TE module)
	Protection class - front / terminals	IP40 / IP20
	Weight	g 270
	Dimensions (H/W/D)	mm 90/53.4/62.4
	Connections	mm ² Measuring inputs (phase 1/2/3): 2.5-16 Neutral: 0.06-2.5 Inputs, outputs and communication: 0.2-1.5
Conditions	Torque	Nm Measuring inputs (phase 1/2/3): 2.5 Neutral: 0.5 Inputs, outputs and communication: 0.4
	Operating temperature	°C -25 ... 55
	Storage temperature	°C -25 ... 70
	Relative humidity (non-condensing)	% 90
	Max. Altitude during operation above sea level	m 2000

¹⁾ 2-year warranty. This does not affect your statutory warranty.