

KM-series Power Monitor Models

Item	Series name	KM1 Series			KM50 Series		KM20 Series	
	Types	Low-cost, reduced wiring, space-saving, versatile multi-circuit measurement			Intelligent on-panel type		Stationary or embedded type	
	Model	KM1-PMU□A-FLK	KE1-CTD8E	KM1-EMU8A-FLK	KM50-C1-FLK	KM50-E1-FLK	KM20-B40-FLK	KM20-B40
	Product name	Multi-circuit Smart Power Monitor			48 x 48 Smart Power Monitor	48 x 96 Smart Power Monitor	Compact power sensor with RS-485 communications	Compact power sensor with pulse output
External appearance								
Features	<ul style="list-style-type: none"> Inherits the features of the KM50-E. Input of two systems with different voltages (PMU2A) Maximum number of measured circuits Single-phase, two-wire: 4 circuits (PMU2A) Single-phase, three-wire/ Three-phase, three-wire: 2 circuits (PMU2A) Three-phase, four-wire: 1 circuit (PMU1A) Up to four Slave Units can be added 	<ul style="list-style-type: none"> Maximum number of measured circuits per Unit Single-phase, two-wire: 8 circuits Single-phase, three-wire: 4 circuits Three-phase, three-wire: 4 circuits Three-phase, four-wire: 2 circuits 	<ul style="list-style-type: none"> Seven event inputs One temperature input 	<ul style="list-style-type: none"> Primary-side inverter measurement supported. Pulse input ON time measurement Specific power consumption management 	<ul style="list-style-type: none"> Primary-side inverter measurement supported. Three-state energy classification Pulse input ON time measurement Specific power consumption management 400-V direct measurement 	<ul style="list-style-type: none"> Simple and easy to use Affordable Easy initial setup with switches only 		
Installation	DIN Track			Front panel or DIN Track mounting bracket (sold separately)		DIN Track		
Numeric display	None			Eleven-segment LEDs	Eleven-segment LEDs	None	None	
Dimensions (mm)	45 x 96 x 90 (WxHxD) (maximum width of 45 x 5 when five Units are linked together)			DIN 48 x 48 Depth: 91 (Including terminal cover)	DIN 48 x 96 Depth: 88 (Including terminal cover)	W30xH80xD78	W30xH80xD78	
Applicable phase wiring method	Single-phase, two-wire	OK	OK	–	OK	OK	OK	OK
	Single-phase, three-wire	OK	OK	–	OK	OK	OK	OK
	Three-phase, three-wire	OK	OK	–	OK	OK	OK	OK
	Three-phase, four-wire	PMU1A only	OK	–	–	OK	–	–
	400-V direct measurement	OK	–	–	(A VT is required.)	OK	(A VT is required.)	(A VT is required.)
Power Monitor power supply	100 to 240 VAC	Provided from the Master Unit	100 to 240 VAC	Same as measured circuits 100 to 240 VAC (common)	100 to 240 VAC	Same as measured circuits 100 to 240 VAC (common)		
Measured items	Total power consumption	OK	OK	–	OK	OK	OK	OK
	Active power	OK	OK	–	OK	OK	OK	–
	Reactive power	OK	OK	–	OK	OK	–	–
	Current	OK	OK	–	OK	OK	OK (R and T phases)	–
	Voltage	OK	–	–	OK	OK	OK (R and T phases)	–
	Power factor	OK	OK	–	OK	OK	OK	–
	Frequency	OK	–	–	OK	OK	OK	–
	Pulse count	–	–	OK (Can be changed with event input.)	OK (Can be changed with event input.)	OK (Can be changed with event input.)	–	–
	Pulse Input ON Time	–	–	OK (Can be changed with event input.)	OK (Can be changed with event input.)	OK (Can be changed with event input.)	–	–
	Specific power consumption	OK (Can be changed with event input.)	–	–	OK (Can be changed with event input.)	OK (Can be changed with event input.)	–	–
Temperature	–	–	OK	OK	OK	–	–	
Functions	Three-state energy classification	OK	–	–	–	OK	–	–
	Simple power measurement (measures only the value of the input current)	OK	OK	–	OK	OK	–	–
	Micropower Measurements Mode (automatic range switching)	OK	OK	–	OK	OK	–	–
	Display of CO ₂ emission	–	–	–	OK	OK	–	–
	Display of regenerative power	–	–	–	OK	OK	–	–
Outputs	Total power consumption pulse output	OK	–	–	OK	OK	–	OK
	Alarm output for measured items	OK	OK	Temperature alarms only	OK	OK	–	–
	Three-state (operating power, standby power, stopped power) status output	OK	–	–	–	OK	–	–
External interface	LAN port	–	–	–	–	–	–	–
	ComoWay/F RS-485 Communications (connections for up to 31 nodes)	OK	–	OK	OK	OK	OK	–
Data logging	Modbus RS-485 Communications (connections for up to 99 nodes)	OK	–	OK	OK	OK	–	–
	Logging to Power Monitor internal memory	OK	–	OK	OK	OK	–	–
	Logging to external memory	–	–	–	–	–	–	–
Applicable standards	CE, S, KC, and TÜV mark			UL, CE, S, and KC mark		–	–	