

# **Product Discontinuation Notices**



#### **Product Discontinuation**

**Electric Power Monitoring Equipment** 

KM1-PMU1A-FLK KM1-PMU2A-FLK

# **Electric Power Monitoring Equipment KM-N** series

Recommended Replacement

KM50 series

KM1-EMU8A-FLK

#### [ Final order entry date ]

The end of March, 2024

#### [ Date of The Last Shipping ]

The end of June, 2024

#### [ Scheduled date of maintenance close ]

The end of June, 2025

#### [ Caution on recommended replacement ]

Since the format of the dedicated CT is different from the K M-N series, it is necessary to replace the CT and CT cable when replacing.

The KM-N series does not have an alarm output function or logging function.

The KM-N1-FLK cannot be screwed.

The KM50 series does not have a temperature measurement function.

I Difference from discontinued product 1

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Recommended replacement Model	Body Color	Dimen- sions	Wire connection	Mounting Dimensions	Charac- teristics	Operation ratings	Operation methods
KM-N2-FLK	**						
KM-N3-FLK	**						
KM50-C1-FLK	**						
KM50-E1-FLK	**						

\*\* : Compatible

\* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

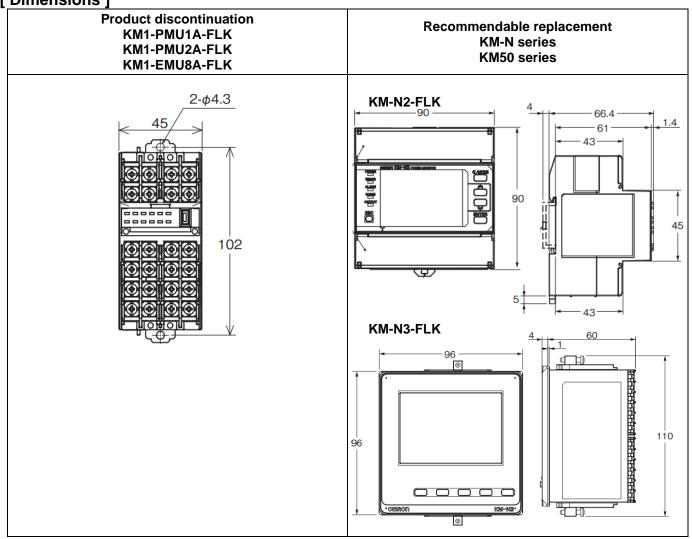
[ Product Discontinuation and recommended replacement ]

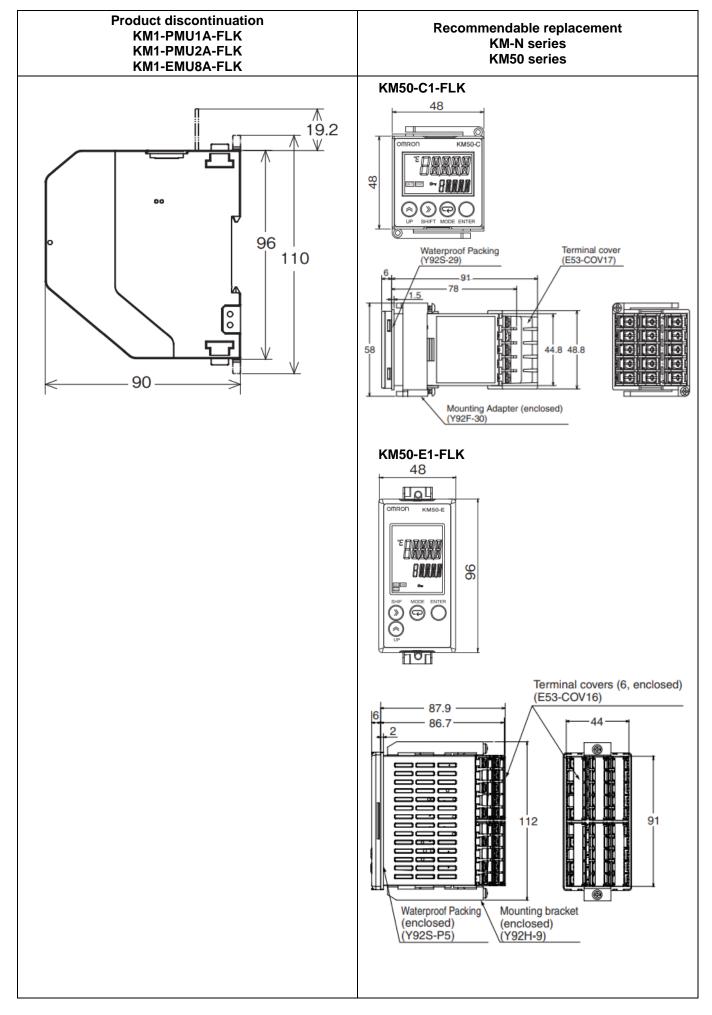
Product discontinuation	Recommended replacement
WM4 EMILOA ELIZ	KM50-C1-FLK
KM1-EMU8A-FLK	KM50-E1-FLK
IZMA DMILIA A ELIZ	KM-N2-FLK
KM1-PMU1A-FLK	KM-N3-FLK
IZMA DMILOA ELIZ	KM-N2-FLK
KM1-PMU2A-FLK	KM-N3-FLK

[ Body color ]



[ Dimensions ]





#### [ Wire connection ]

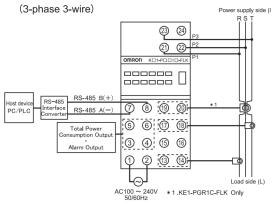
# Product discontinuation KM1-PMU1A-FLK KM1-PMU2A-FLK KM1-EMU8A-FLK

#### Recommendable replacement KM-N series KM50 series

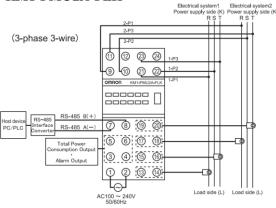
#### Wire connection

3-phase 3-wire

#### KM1-PMU1A-FLK



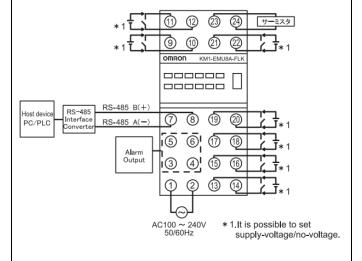
#### KM1-PMU2A-FLK



#### KM1- EMU8A -FLK

Event input: 7

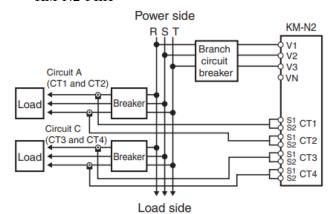
Thermistor inputs: 1



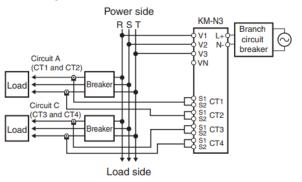
#### Wire connection

3-phase 3-wire

#### KM-N2-FLK



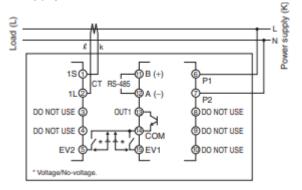
#### KM-N3-FLK

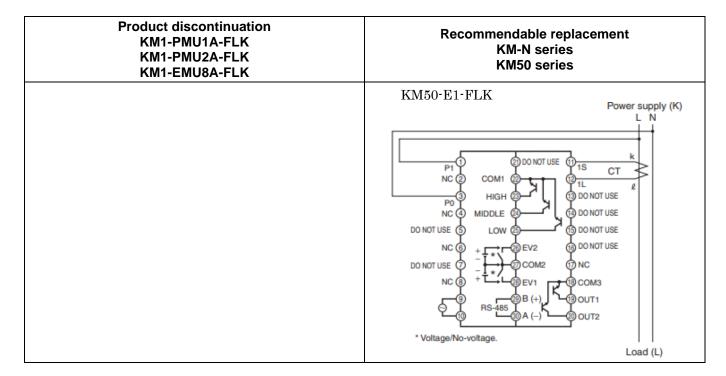


KM50 series Event input: 2

Thermistor inputs: None

#### KM50-C1-FLK





[ Mounting dimensions ]

Product discontinuation KM1-PMU1A-FLK KM1-PMU2A-FLK KM1-EMU8A-FLK	Recommendable replacement KM-N series KM50 series			
Screw mounting,DIN Track	KM-N2-FLK: DIN Track KM-N3-FLK,KM50 series: Front panel mounting			

[Characteristics]

Item		Product disc	continuation	Recommendable replacement		
			KM1-PMU1A- FLK	KM1-PMU2A- FLK	KM-N2-FLK	KM-N3-FLK
Applicable phase wiring method		Single-phase two-wire, Single- phase three- wire, Three- phase three- wire, Three-phase four-wire  Single-phase two-wire, Single- phase three- wire, Three-phase three-wire		Single-phase two-wire, Single-phase three-wire, Three-phase three-wire, Three-phase four-wire		
Power supply	Rated pov	wer supply	100 to 240 VAC, 5	60/60 Hz	input voltages	100 to 240 VAC, 50/60 Hz
	Allowable voltage ra		85% to 110% of ravoltage	ated power supply	85% to 115% of rated power supply voltage	85% to 110% of rated power supply voltage
	Power co	nsumption	Standalone: 10 VA		7 VA max.	
Input	Rated input voltage	Single- phase two- wire: Line voltage	100 to 480 VAC		100 to 277 VAC	
	Single- phase three- wire: Phase voltage/line voltage		100/200 VAC		100 to 220VAC/ 200 to 440VAC	100 to 240VAC/ 200 to 480VAC
	Three-phase three-wire: Line voltage		100 to 480 VAC		173 to 277VAC	
		Three-phase four-wire	58 to 277 VAC (Phase voltage)	_	Grounded neutral: 100 to 254VAC(Phase voltage) 173 to 440VAC(line voltage)	Grounded neutra: 100 to 277VAC(Phase voltage) 173 to 480V (line voltage)
					Not grounded neutral: 100 to 120VAC(Phase voltage) 173 to 208VAC(line voltage)	
	(CT)	out current	5, 50, 100, 200, 400, or 600 A		General-purpose CT with a rated secondary current of 1 A or 5 A	
Dedicated CT		Model KM20-CTF-□A Model KM20-CTB-5A/50A (penetration type)		Model KM-NCT-E□A  * CE marking compliant KM-N2/N3 dedicated products		
	Dedicated CT cable		Model KM20-CTF	-CB3	-	
Rated input frequency		50/60 Hz		Same as left		
Allowable input voltage		110% of rated input voltage (continuous)		115% of rated input voltage (continuous)		
	Allowable input current		120% of rated inpo (continuous)	ut current	Maximum CT sec	ondary current 6A
Ambient		emperature	-10 to 55°C (with or icing)	no condensation	-25 to 55°C	
Storage h	Storage humidity		-25 to 65°C (with or icing)	no condensation	−25 to 85°C	
Ambient	operating l	numidity	25% to 85%		Same as left	

Item		Product dis	continuation	Recommendable replacement		
		KM1-PMU1A- FLK	KM1-PMU2A- FLK	KM-N2-FLK	KM-N3-FLK	
Storage humidity		25% to 85%		Same as left		
Installation environment		Overvoltage cated degree 2, measur	gory II, pollution ement category II	Same as left		
Compliant standards		EN/IEC 61010-2-0 31626-1 Industria environment	l electromagnetic	UL61010-1(Recog EN61010-2-030 EN61326-1		
Accuracy	Voltage	±1.0% FS, ±1 digit the same condition	e across Vtr under	No provision		
	Current	±1.0% FS, ±1 digition accuracy is ±2.0% the phase-S current phase, three-wire phase-N current further circuit is conditions.	6 FS, ±1 digit for ent for a three-circuit and the or a singlephase,	No provision		
	Power	Active power and ±2.0% FS, ±1 digit 1)		0.5% (IEC 62053-	22 class 0.5S)	
	Frequency	±0.3 Hz ±1 digit		No provision		
Low-cut curre	nt set value	0.1% to 19.9% of 0.1% increments	rated input in	None		
Sampling cycl	Sampling cycle		rement voltage at s for tage at 60 Hz	80 ms for 50 Hz and 66.7 ms for 60 Hz		
Weight		230 g		350g		
Transistor outputs	Number of outputs	Three open collect OUT2, OUT3) and		Number of outputs: 4 (photoMOS relay outputs) Used for the total power consumption pulse output.		
	Output capacity	30 VDC, 30 mA		50 mA at 40 VDC		
	ON residual voltage	1.2 V max.		1.5 V max.		
	OFF leakage current	100 μA max.		0.1 mA max.		
Total power consumption pulse output		Outputs one pulse consumption read output unit (1, 10, 10k, 20k, 50k, 100	thes the set pulse 100, 1k, 2k, 5k,	Output unit: 1, 10, 100, 1k, 5k, 10k, 50k, or 100k (wh)		
	Alarm output	Outputs an alarm alarm output thres		None		
RS-485	Protocols	Communications Compoway/F or N		Same as left		
	Baud rate	9,600 bps, 19,200 bps, or 38,400 bps		1.2, 2.4, 4.8, 9.6, 19.2, 38.4kbps		
	Maximum transmission distance	500 m		1200m		
	Maximum number of nodes	CompoWay/F: 31	, Modbus: 99	Modbus: 99, CompoWay/F: 31 If you measure more than one circuit with one Power Monitor, the number of circuits is treated as the number of connected Power Monitors.		

Item	Product disc	continuation	Recommendab	le replacement
	KM1-PMU1A- FLK KM1-PMU2A- FLK		KM-N2-FLK	KM-N3-FLK
USB	USB 1.1 compatible		None	

[Characteristics]

lt.	tem	Product discontinuation	Recommendable replacement		
		KM1-EMU8A-FLK	KM50-C1-FLK KM50-E1-FLK		
Power supply	Rated power supply voltage	100 to 240 VAC, 50/60 Hz	Same as left		
	Allowable supply voltage range	85% to 110% of rated power supply voltage	Same as left		
	Power supply allowable frequency range	45 to 65 Hz	Same as left		
	Power consumption	10 VA max.	7 VA max.		
Ambient operat	ing temperature	-10 to 55°C (with no condensation or icing)	Same as left		
Storage humidit	ty	-25 to 65°C (with no condensation or icing)	Same as left		
Ambient operat	ing humidity	25% to 85%	Same as left		
Storage humidit	ty	25% to 85%	Same as left		
Installation envi	ironment	Overvoltage category II, pollution degree 2, measurement category II	Same as left		
Compliant stand	dards	EN/IEC 61010-2-030 and EN/IEC 31626-1 Industrial electromagnetic environment	EN61010-1 (IEC61010-1), EN61326-1 (IEC61326-1), UL61010-1, CAN/CSA-C22.2 No.61010-1		
Event inputs	Number of inputs	7	2		
	No-voltage inputs	ON current: 15 mA max., ON residual voltage: 8 V max., OFF leakage current: 1.5 mA max.	ON resistance: $1 \text{ k}\Omega$ max. OFF resistance: $100 \text{ k}\Omega$ min. ON residual voltage: $8 \text{ V}$ max. ON current (at $0 \Omega$ ): $10 \text{ mA}$ max.		
	Voltage input	High level: 4.75 to 30 VDC Low level: 0 to 2 VDC Input impedance: Approx. 2 kW	Same as left		
	Minimum input time	5ms	Same as left		
Temperature inputs	Thermistor inputs	1	None		
	Applicable thermistor	E52-THE5A Color code (blue): -50 to 50° C Color code (black): 0 to 100° C			

[Functions]

ltem		Product discontinuation			Recommendable replacement	
		KM1-	KM1-PM	U2A-FLK	KM-N2-FLK KM-N3-F	
		PMU1A- FLK	Single Power System	Dual Power Systems		
Number of measured circuits	Single-phase, 2-wire	4 circuits max.	4 circuits max.	Per 1 system 2 circuits max.	4 circuits max.	
	Single-phase, 3-wire	1 circuits max.	2 circuits max.	Per 1 system 1 circuits max.	2 circuits max.	
	Three-phase, 3- wire	1 circuits max.	2 circuits max.	Per 1 system 1 circuits max.	2 circuits max.	
	Three-phase, 4- wire	1 circuits max.	_	_	1 circuits max.	
Measuring	Active power	0			0	
function	Active energy	0			0	
	Current	0			0	
	voltage	0			0	
	Power factor	0			0	
	Reactive power	0			0	
	Frequency	0			0	
	Active energy (export)	0			0	
	Cumulative reactive power	0			0	
Outputs function	Total power consumption pulse output	0			0	
Alarm output	Power	0			×	
	Overcurrent/Un dercurrent	0				
	Over voltage /Under voltage	0				
	Power factor	0				
	Reactive power	0				
	Phase- sequence	0				
Logging		0			×	
Others	3-STATE function	0			×	
	Power intensity measurement	0			×	
	Conversion value	0			0	
	Simple measurement	0			×	
	CT ratio setting	0			×	

Ite	Item		Product discontinuation			Recommendable replacement	
		KM1- KM1-PMU2A-FLK		KM-N2-FLK KM-N3	KM-N3-FLK		
		PMU1A- FLK	Single Power System	Dual Power Systems			
	VT ratio setting		0			0	
	Low-cut current value function Average number of times				×		
					×		

[Functions]

Item	Product discontinuation	Recommendable replacement		
	KM1-EMU8A-FLK	KM50-C1-FLK KM50-E1-FLK		
Pulse input count	0	0		
Pulse ON time	0	0		
Pulse Conversion value	0	×		

Specifications and prices in this product news are as of the issue date and are subject to change without notice.

Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.