OMRON

5371687-8 B

model KM-N3-FLK

On-Panel Power Monitor

INSTRUCTION MANUAL

Thank you for purchasing the On-panel Power Monitor, model KM-N3-FLK (referred to as model KM-N3 in this manual). This manual describes the functions, performance, and application methods needed for optimum

use of model KM-N3. Please observe the following when using model KM-N3.

- This product is designed for use by gualified personnel with a knowledge of electrical systems.
- Before using the product, thoroughly read and understand this manual to ensure correct use.
 Keep this manual in a safe location so that it is available for reference whenever required.

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For detailed instructions, download "Model KM-N3-FLK User's Manual" (catalog no. N214-E1-01) from our

PRECAUTIONS ON SAFETY

Key to Warning Symbols

CAUTION Indicates a potentially hazardous situation which, if not average result in minor or moderate injury, or there may be propert							
Property damage may occur due to fire. Tighten the terminal screws to the specified torques. After tightening the screw, check that the screw is not loose. M3 screw: 0.5 to 0.58N·m	0						
Minor or moderate injury or property damage may occur due to explosion. Do not use in locations exposed to flammable or explosive gases.							
Breakdown or explosion may occasionally occur. Use the power voltage and load within the specified and rate ranges.							
Electric shock may occasionally occur. Do not touch any of the terminals while the power is being supplied.							
Electric shock may occasionally occur. Always make sure that the power to the circuit the CT is being attached to is turned OFF before connecting the CT*.	A						
Minor electric shock, fire, or malfunction may occasionally occur. Do not supply a current to the CT input terminal that exceeds the maximum CT secondary current.	\bigcirc						
Minor electric shock, fire, or malfunction may occasionally occur. Never disassemble, modify, or repair the product.	\otimes						

* CT: Current Transformer

PRECAUTIONS FOR SAFE USE

Observe the following to ensure safe use of model KM-N3

- Do not use or store the product in any of the following locations Locations subject to shock or vibration
- Unstable locations where the user might fall/tumble down
- Locations subject to temperatures or humidity outside rated ranges
- Locations subject to condensation as the result of severe changes in temperature
- Outside or otherwise exposed to direct sunlight and weather Locations subject to static electricity or other forms of noise
- Locations exposed to electromagnetic fields
- Locations subject to exposure to water or oil.
- Locations subject to exposure to salt water spray.
- Locations subject to corrosive gases (in particular, sulfide gas and ammonia gas).
- Locations subject to dust (including iron dust).
- Locations subject to exposure to solvents

 Be sure to wire properly with the terminals with correct symbols.
 Use AWG20 to 16 (with a cross-section of 0.5 to 1.5mm²) to wire the power supply terminals. The heat resistant temperature of the wire is 85 degree or more.

- Use AWG18 to 14 (with a cross-section of 0.75 to 2.0mm²) to wire the CT and measurement voltage terminals. Use the crimping terminals of the round shape or Y-shape compatible with the M3 screw. The heat resistant temperature of the wire is 85 degree or more.
- Use twisted or solid wire AWG24 to 16 (with a cross-section of 0.25 to 1.5mm²) to wire communication terminals. The heat resistant temperature of the wire is 85 degree or more.
 Before using or maintaining the product, thoroughly read and understand this manual.
- · Understand the user manual before setting the device.
- · Do not pull cables.
- · For compliance with standards and safety, in order that the worker may turn OFF the power immediately, install a branch circuit breaker conforming to the voltage at which the device is used and the appropriate standards of the country where the device is used (US: UL Listed, Canada: cUL Listed, and other countries: for example, IEC60947-1 and IEC60947-3), and indicate that the breaker is a device to disconnect the circuit for product safety. A branch circuit breaker with a rated current of 1A is recommended
- · Do not touch any of the terminals while the power is being supplied.
- · Do not install the product close to heat-producing devices (those using coil elements, for instance). Separate the product wiring from high-voltage or high-current power lines to prevent inductive noise Do not place the product wiring parallel to or in the same ducts or conduits as power lines. Use
- separate ducts, separate conduits, or shielded cables to prevent noise. This is a "class A" product. In residential areas it may cause radio interference. The user may be quired to take adequate measures to reduce interference if this occurs.
- Use the product by incorporating it in a panel 1 to 8 mm thick. If the panel thickness is not appropriate or the mounting method is not appropriate, the product might be come off.

PRECAUTIONS FOR CORRECT USE

- This product is not categorized as "a specified measuring instrument" officially approved by an organization specified in relevant measurement acts. It cannot be used to certify power usage
- Set the parameters of the product so that they are suitable for the system being measured. Use varistors between the outer power and voltage measuring input wires when this product is installed in an overvoltage category III environment.
- This product cannot be used to measure the inverter's secondary side.
 Ensure that the rated voltage is reached within 2 seconds of turning the power on.
- · When cleaning the unit, make sure the power is off and wipe the surface of the unit with a soft dry cloth. Do not use chemicals including solvents such as thinners, benzine, or alcohol · You cannot use the CT dedicated for use with the Omron KM series (model series KM20-CTF, model series
- KM-NCT). Use a CT whose secondary output is 1A or 5A. The data for active energy is saved at 5 minute intervals. The data for the 5 minutes preceding the unit
- powering off may not be saved under some circumstances.
- · Dispose of this product appropriately as industrial refuse in accordance with local and national regulations.

Features

This product is an electric energy monitor mounted on the panel of the control board. It complies with the international IEC accuracy standards and can be connected using general-purpose CTs. One unit can measure a maximum of four circuits. The unit can measure the power of each point accurately

Main unit specifications

Item	Content
Rated input voltage	AC100 to 240V
Rated frequency	50/60Hz
Variation range of power supply voltage	85 to 110% of rated power supply voltage
Variation range of power supply frequency	45 to 65Hz
Power consumption	7VA or less
Ambient operating temperature	-25 to 55 oC (with no icing or condensation)
Ambient operating humidity	25 to 85%RH
Storage temperature	-25 to 85 oC (with no icing or condensation)
Storage humidity	25 to 85%RH
Dielectric strength voltage	 Between the set of electric circuits and the case: 1400 VAC for 1 minute Between the batch input of power supply, voltage, and current and the set o communication terminals and pulse output terminals: 1400 VAC for 1 minute
Insulation resistance	 Between electronic circuitry and case: 20MΩ max. (at DC500V mega) Between the batch input of power supply, voltage, and current and the set of communication terminals and pulse output terminals: 20MΩ max. (at 500 VDC mega)
Vibration resistance	Single amplitude: 0.1mm, Acceleration: 15m/s ² , Frequency: 10 to 150Hz 10 sweeps for eight minutes along the three axes
Shock resistance	150m/s ² , 3 times each in the up, down, left, right, forward, and back directions
Electromagnetic environment	Industrial electromagnetic environment (EN/IEC 61326-1 Table 2)
Display and Operation	LCD display, buttons
Weight	Approximately 300g (main unit), approximately 400g (when in packaging)
Mounting	Mounting on the panel
Altitude	Under 2000m
Installation environment	Overvoltage category and measurement category: II, Pollution level: 2
Applicable standards	EN61010-1, EN61010-2-030, EN61326-1, UL61010-1, UL61010-2-030
Supplied Accessories	Instruction Manual (this document), compliance sheet, Mounting adapter, waterproof packing

Measurement specifications

Item	Content				
Active power	0.5% (Compliant with IEC62053-22 Class 0.5S)*				
Reactive power	2% (Compliant with IEC62053-23 Class 2)*				
Measurement frequency	80ms (at 50Hz), 66.7ms (at 60Hz)				
Functions	Conversion				
*IEC62053 is an international standard dealing with electricity metering.					

*IThis does not include the measuring error margin of the generic CT.

Measurement input specifications

Item	Content
Applicable circuit type	3-phase 4-wire, 1-phase 2-wire, 1-phase 3-wire, 3-phase 3-wire
Number of measuring	3-phase 4-wire : Maximum 1 circuit
circuits	1-phase 2-wire : Maximum 4 circuits
	1-phase 3-wire, : Maximum 2 circuits 3-phase 3-wire
Rated input voltage	3-phase 4-wire : 100 to 277 VAC (L-N), 173 to 480 VAC (L-L)
	1-phase 2-wire : 100 to 277 VAC
	1-phase 3-wire : 100 to 240 VAC (L-N), 200 to 480 VAC (L-L)
	3-phase 3-wire : 173 to 480 VAC (L-L)
Connectable CTs	Generic CT (Secondary rated current: 1A or 5A)*
Rated current for CT secondary side	1A
Maximum current for CT secondary side	6A

series KM-NCT)

Use a CT with a rated load of 1.0 VA or more

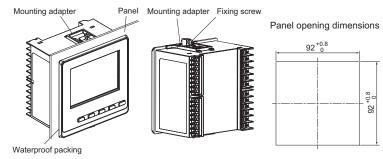
Output specifications

	Content
Number of output points	: 4 (PhotoMOS relay outputs)
Output capacity	: DC40V, 50mA or less
Residual voltage when ON	: Less than 1.5V (when output current is 50mA)
Current leakage when OFF	: 0.1mA max.
Output units	: 1,10,100,1k,5k,10k,50k, 100k(Wh)
Pulse ON time	: 500ms fixed
Protocol	: Modbus (RTU),CompoWay/F
Sync method	: Asynchronous
Communication speed	: 38400, 19200, 9600, 4800, 2400, 1200bps
Maximum transmission distance	: 1200m
Maximum number of devices connected	: 99 (Modbus), 31 (CompoWay/F)
	Output capacity Residual voltage when ON Current leakage when OFF Output units Pulse ON time Protocol Sync method Communication speed Maximum transmission distance

Attaching the body of the unit

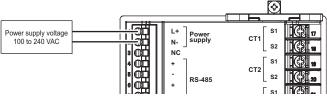
1 Create an opening on the panel according to the panel machining dimensions. Use a panel 1 to 8 mm thick

- (2) In order to make the unit waterproof, with the accessory waterproof packing on the front Of the panel, insert the unit into the panel opening.
 Unless the waterproof packing is put, the product is not waterproof.
- ③ Fit the attached mounting adapter into the fixing grooves on the top and bottom faces of
- the rear case. ④ Push in the mounting adapter from the terminal side until it contacts the panel to fix the main unit tentatively.
- (5) Fasten the fixing screws of the top and bottom mounting adapter alternately as keeping balance little by little.
- Apply a fastening torque of 0.29 to 0.39 N•m
- For safety purposes, install the main unit where you are not able to touch the terminals when operating the main unit. For example, install the main unit with the terminals hidden within the control board so that a person working on the unit will not be able to touch live wires.



Wiring of power supply, CT, and measurement voltage input

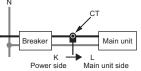
- Wiring the power supply
- For safety purposes, turn off the mains power and the breaker to ensure there is no power supply while The terminal is the push-in type. Also read "Cautions when connecting the Push-In Plus terminal "
- when wiring
- when wining.
 To wire with the power supply terminal, use AWG20-16 wire (with a cross-section of 0.5 to 1.5 mm²).
 Peel the wire-coating by 10 mm when using a ferrule terminal and by 8 mm when not using it.
- Use a ferrule terminal with a conductor portion 8mm long.



Wiring the CTs

For safety purposes, turn off the mains power and the breaker to ensure there is no power supply while

- You will need 3 CTs to measure 3-phase 4-wire, 2 CTs to measure 1-phase 3-wire or 3-phase 3-wire, and 1 CT to measure 1-phase 2-wire. CTs have polarity, so confirm the current directions at the power supply side (K) and load side (L)
- before wiring the CTs. If the direction is not appropriate, power cannot be measured corre-



- To wire the CT input terminals, use AWG18-14 wire (with a cross-section of 0.75 to 2.0 mm²) and
- The recommended torque for screwing the 3mm screws onto the terminal panel is 0.5 to 0.58 N·m. Make sure the crimping terminal is pushed all the way in and tightened firmly. After fixing the wiring, confirm that the wire is fixed securely.

Wiring the measurement voltage input

- For safety purposes, turn off the mains power and the breaker to ensure there is no power supply while
- Vire correctly so the phase sequence is correct. You will be unable to measure the power and energy correctly if you fail to do so.
 To wire with the measurement voltage input terminal, use AWG18-14 electric wire (with a cross-section of 0.75-2.0mm²) and crimping terminals of the round shape or Y-shape (5.8mm wide or less) compatible with the M3 screw.
- The recommended fastening torque of the M3 terminal screw is 0.5 to 0.58 N·m. Make sure the ferrule terminal is pushed all the way in and tightened firmly. After fixing the wiring, confirm that the wire is

Wiring diagrams

The below table shows the wiring of voltage input terminals and CT input terminals with each phase and wire type (3-phase 4-wire, 1-phase 2-wire, 1-phase 3-wire, and 3-phase 3-wire) using only one circuit (circuit A). Wire the device according to the phase and wire type.

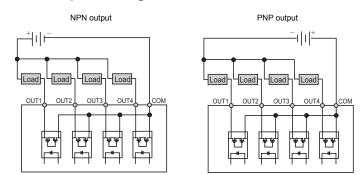
	VR	VS	VT	VN	CT-R	CT-S	CT-T	
3-phase 4-wire	V1	V2	V3	VN	CT1	CT2	CT3	
1-phase 2-wire	V1	-	_	VN	CT1	-	_	
1-phase 3-wire	V1	-	V3	VN	CT1	-	CT2	
3-phase 3-wire	V1	V2	V3	—	CT1	—	CT2	

(wiring example for 3-phase 4-wire) P1/P2: Primary

- S1/S2: Secondary
- The diagram at right shows the relationship between the wiring table and the terminals on the main unit.

CT INF	νUT	F	R S	3.	r r	N I		S100	HOSE
CT-R	S1	S1	P1				CT1	S100	1/251
	S2	S2	P2	P1				S109	165
CT-S	S1 S2		51 S2	P1 B P2			CT2	S2 🙆	CS.
	S1		52		P1		СТЗ	S1 🕲	C)
CT-T	S2			S2	B P2		015	C)	
MEAS	JRED						074	S109	I CSI
VOLTA INPUT	GE						CT4	S2 🚱	C)
								V1	C)
Vs			_	•			MEASURED VOLTAGE	V2	
VT				-	ł		VOLTAGE	V3	LGDI LIGDI
VN					⊢				SP.

Pulse output wiring



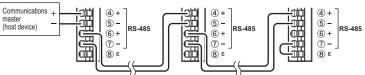
This unit is equipped with 4 pulse output terminals. The common terminal is used commonly

- The terminal is the push-in type. Also read "Cautions when connecting the Push-In Plus terminal when wiring.
- Do not directly connect an external power source to OUT or COM. Make sure the load is connected.
 To wire with the pulse output terminal, use AWG24-16 twisted or solid wire (with a cross-section of 0.25 to 1.5 mm²)
- Peel the wire-coating by 10 mm when using a ferrule terminal and by 8 mm when not using it.
 Use a ferrule terminal with a conductor portion 8mm long.
 To avoid the influence of noise, use separate wiring for the signals and for the power.
- · Output for circuit A is allocated to OUT1, circuit B to OUT2, circuit C to OUT3, and circuit D to OUT4,

RS-485 wiring

The configuration of the connection should be either 1:1 or 1:N. If the 1:N connection is Modbus, up to 99 KM-N3 can be connected. If CompoWay/F, up to 31 KM-N3 can be connected.

The terminal is the push-in type. Also read "Cautions when connecting the Push-In Plus terminal when wiring



- There is no FG terminal on KM-N3. Connect only the + wire and wire of RS-485.
- · Use twisted pair cables. • To wire with the RS-485 terminal, use twisted or solid wire of AWG24-16 (with a cross-section of 0.25
- Peel the wire-coating by 10 mm when using a ferrule terminal and by 8 mm when not using it.
- Use a ferrule terminal with a conductor portion 8mm long.
 To avoid the influence of noise, use separate wiring for the RS-485 communications and for the power.
 The maximum transmission distance is 1200m.
- · Irrespective of the transmission distance and number of units connected, perform communications checks with the actual units.

Termination settings

- This unit is equipped with a terminating resistor inside the main unit. On the unit that is the terminator for communications, short the RS-485 terminal and the RS-485 E terminal with a cable. Connect with the internal terminating resistor.
- · If the host device you are using does not have its own built in terminating resistor, connect a
- terminating resistor to the host device. The terminating resistance is 120Ω (1/2W). Do not wire in a terminating resistor terminal on KM-N3 that are along the transmission path. This can caused communication failures.

/ Safety standard compatibility

- If the equipment is used by a method not specified by the manufacturer, the equipment might lose the equipped protection
- The temporary overvoltage occurring on the main power supply must not exceed the following values: Confirm the voltage using the power supply voltage of the product that you purchased Short-time overvoltage: 1200 V+ (power supply voltage)

Long-time overvoltage: 250 V+ (power supply voltage)

For safety standard compliant, Listing CT of XOBA / XOBA7 category must be used. <Meaning of the warning symbols on the product>



Electric shock may occasionally occur. Use the product according to this content. Heat resistant temperature of wires that are used with the product needs to be more than 85 degree

Multi-address system

This unit makes it possible to have a maximum of 4 measuring circuits in one unit The measuring circuits act as independent power monitors, each able to measure, each having different settings, and each allocated different communications addresses. You can easily change the number of circuits by enabling or disabling the measuring circuits.

1-phase 3-wire. 3-Phase 3-wire (2 circuits max.) 1-Phase 2-wire (4 circuits max.) Circuit D Circuit C Circuit B Circuit A Circuit C Circuit A Measurement value leasurement value asurement valu leasurement value asurement value asurement value Setting Value Setting Value Setting Value Setting Value Setting Value Setting Value ommunication addr munication address ommunication add runication add unication address ommunication addres model KM-N3 model KM-N3

Mode configuration

This model has three modes: measuring mode, setting mode, and communication setting mode.

Measuring mode Setting mode

:The measured values or alarm details of each circuit are displayed. :By operating keys on the body of the unit you can change settings for each of the circuits, and make common settings for communications,

5

6

7

8

9

10

E2

Setting mode

No

A1

A2

A5

A6

A7

B0

B1

B2

B5

B6

B7

C0

C1

C2

C5

C6

C7

D0

D1

D2

D5

D6 D7

00

01

02

03

04

05

06

07

80

09

0A

0B

90

91

92

93

Setting item list

Circuit

Circuit

В

Circuit

С

Circui

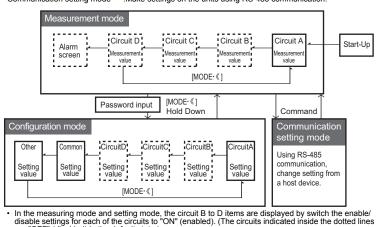
D

CMMN

Others ETC

Communication setting mode

output, the display, etc. :Make settings on the units using RS-485 communication.



are "OFF" (disabled) in the default state.) The alarm screen is displayed when an alarm has occurred

Switching between the measuring mode and the setting mode Switch between the measuring mode and setting mode by pressing and holding the IMODE 1 key. · "Press and hold" means pressing the key for 1 or more seconds

How to enter the password

- When moving from the measuring mode to the setting mode, you need to enter the password that has been set.
 The default password is "0001".
- You can set a password of 4 numerals between 0000 and 9999. Change the password as necessary.
 You will be unable to reset the password if you forget it. Take care to note the password carefully when changing it.
- There is no functionality to disable the password setting.
- If you forget the password, contact the place of purchase or the manufacturer.

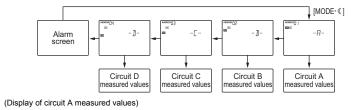
Measuring mode

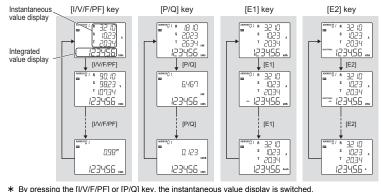
Measurement display

When the [MODE•] key is pressed, the measuring items are displayed after the screen for showing the destination circuit

 By pressing the [I/V/F/PF], [P/Q], [E1], or [E2] key, the measuring items are switched.
 When an alarm has occurred, the screen transits to not only the screen displaying the measured values but also the screen displaying the alarm details.

(1P2W display example)





By pressing the [E1] or [E2] key, the integrated value display is switched

Measurement display list										
			Instantaneous	Integrated						
	key	Item	value display	value display	units					
1		Current	0.000 to 9999		A					
2		Voltage A *1	0.000 to 9999		V/kV					
3	I/V/F/PF	Voltage B *2	0.000 to 9999		V/kV					
4		Frequency	45.0 to 65.0		Hz					
5		Power factor	-1.00 to 1.00		PF					
1		Active power (each phase)	-9999 to 9999		kW/MW					
2	P/Q	Active power (total)	-9999 to 9999		kW/MW					
3	F/Q	Reactive power (each phase)	-9999 to 9999		kvar/Mvar					
4		Reactive power (total)	-9999 to 9999		kvar/Mvar					
1		Active energy (import)		0 to 999999	kWh/MWh					
2		Active energy (export)		0 to 999999	kWh/MWh ("" is lit)					
3		Cumulative total reactive power		0 to 999999	kvarh/Mvarh ("Total Q" is lit)					
4	E1	Reactive energy (import)		0 to 999999	kvarh/Mvarh ("" is lit)					
5	EI	Reactive energy (export)		0 to 999999	kvarh/Mvarh					
6		T1 active energy (import)		0 to 999999	kWh/MWh					
7		T2 active energy (import)		0 to 999999	kWh/MWh					
8		T3 active energy (import)		0 to 999999	kWh/MWh					
9		T4 active energy (import)		0 to 999999	kWh/MWh					
1		Active energy (import) (resettable)		0 to 999999	kWh/MWh ("RESETTABLE" is lit)					
2		Active energy (export) (resettable)		0 to 999999	kWh/MWh ("" is lit) ("RESETTABLE" is lit)					
3		Cumulative total reactive power (resettable)		0 to 999999	kvarh/Mvarh ("Total Q" is lit) ("RESETTABLE" is lit)					
4		Reactive energy (import) (resettable)		0 to 999999	kvarh/Mvarh ("" is lit) ("RESETTABLE" is lit)					
5		Reactive energy (export)		0 to 999999	kvarh/Mvarh					

The unit such as k or M is switched automatically.
 Although the indication value of the model KM-N3 main unit is returned to zero when the integrated

*1 Voltage A: The phase voltage and line voltage of the each phase and wire type are displayed.
*2 Voltage B: The line voltage is displayed only for the three-phase four-wire type.

value has reached the maximum, the unit continues to integrate the measured value. Correct values

0 to 999999

Main display

Display of options and input values

P4W / 1P2W /1P3W / 3P3W /1P2W2 / 1P3

Modbus : --, 01 to 99 CompoWay/F : -- 00 to 99

1A / 5A

1 to 99999

V_R/V_T/V_R-

ON / OFF

ON / OFF

e phase and wire type set by m No. A1 is displayed.

Modbus : --, 01 to 99 CompoWay/F : -- 00 to 99

1A / 5A

1 to 9999

V R/V T/V R-T

ON / OFF

ON / OFF

The phase and wire type set by men

Modbus : --, 01 to 99 CompoWay/F : -- 00 to 99

1A / 5A

1 to 9999

V R/V T/V R-T

ON / OFF

ON / OF

The phase and wire type set by me No. A1 is displayed.

Modbus : --, 01 to 99 CompoWay/F : -- 00 to 99

1A / 5A

1 to 9999

V R/V T/V R-T

ON / OFF

MODBS / COMP

1.2K / 2.4K /4.8K 9.6K / 19.2K / 38.4K(bps)

NONE / ODD / EVEN

00 to 99

1.00 to 999.99

0.000 to 99.999

1 / 10 / 100 / 1K / 5K 10K / 50K /100K (Wh)

OFF / 1.0 / 5.0 / 10.0 (minutes)

ON / OFF

ON / OFF

0000 to 9999

V.1.0.0

No. A1 is displayed

Reactive energy (export) (resettable)

1 active energy (impo

T3 active energy (import) (resettable) T4 active energy (import) (resettable)

Conversion value

Setting Item

Phase and wire type

Communication address

A3 Current on the CT secondary side

A4 Current on the CT primary side

Voltage assigni

Pulse output ON/OFF

Active energy reset

Circuit B ON/OFF

Phase and wire type

Communication address

Voltage assignment

Pulse output ON/OFF

Active energy reset

Circuit B ON/OFF

Phase and wire type

Communication address

Voltage assignment Pulse output ON/OFF

Active energy reset

Circuit B ON/OFF

Phase and wire type

Communication address

Voltage assignment

Pulse output ON/OFF

Active energy reset

Communication speed

Data length

Transmission wait time

VT ratio

Conversion rat

Pulse output units

Automatic LCD off

Alarm display with negative effective power value ON/OFF

Tariff ON/OFF

Change password

Software version display

All active energy reset

Restart

Initializ

Stop bit Parity

D3 Current on the CT secondary side

D4 Current on the CT primary side

C3 Current on the CT secondary side C4 Current on the CT primary side

B3 Current on the CT secondary side

B4 Current on the CT primary side

(resettabl T2 active energy (import (resettable) · Setting example

Default Value

3P4W

01

5A

5

OFF

OFF

Automatic

S/N

5A

VR

OFF

OFF

Automatic

S/N

5A

5

VR

OFF

OFF

Automatic S/N

5A

5

VR

OFF

MODBS

9.6K

8

EVEN

20 1.00

10.000

100

OFF

ON

OFF

0001

V_R

("RESETTABLE" is lit)

("RESETTABLE" is lit)

k\//h/////

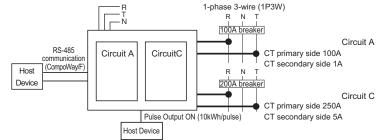
("RESETTABLE" is lit)

kWh/MWh

("RESETTABLE" is lit) kWh/MWh

("RESETTABLE" is lit)

N/A



Circuit A		Circuit C	
 Phase and wire type 	: 1P3W	Circuit C ON/OFF	: ON
 Current on the CT secondary side 	: 1A	Phase and wire type	: 1P3W
 Current on the CT primary side 	: 100A	 Current on the CT secondary side 	: 5A
Communication address	: 15	 Current on the CT primary side 	: 250A
Pulse output ON/OFF	: ON (automatically allocated to OUT1	Communication address)	: 16 (numbered starting from circuit A
		Pulse output ON/OFF	: ON (automatically allocated to OLIT3)

Item

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 MOIDS⁴⁰ PRICL Molto Mathematical Containation, equipment exposed to chemical contamination, equipment exposed to chemical contamination			etc., 24 hour continuous opera	ating systems, fi	nancial settlement	systems and other	applications that
 * Make other communications settings to suit the host device. (a) Pulse output units settings (common settings) Set to 10kWh/pulse • Press the [MODE-K] key to move to the common setting inspection on setting items, press the [A] [A] [A] [A] [A] [A] [A] [A] [A] [A]			 (c) Applications under severe con equipment exposed to chemic 	al contamination	n, equipment expos		
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'	Press the [ENTER] key to confirm your selection.											
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	Make other communications pattings to quit the heat dovice											

Set

- Press the [←] [←] keys to select "10k"
- Press the [ENTER] key to confirm your selection. 111/1 NOR 11/SE 90..... SET 100 WH7P ЮК[°] WH/P 8949. AWARN

④ Circuit A settings

Set the phase and wire type to 1P3W

- Press the [MODE•()] key to move to the circuit A setting items. "Phase and wire type (MENU A1)" is displayed.
 Press the [ENTER] key to enter the setting mode. The setting value in the main display flashes.
- Press the [A][] [] keys to select "1P3W" (1-phase 3-wire).
 Press the [ENTER] key to confirm the selected items.

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on settings items. "Protocol (MENU 00)" is on ng mode. The setting value in the main displ PF".
election.
NUL NOR SET



- Set communication address of circuit A to 15 On the setup items of circuit A, press [♣] or [♥] key to move to the "Communication address (MENU A2)." Press the [ENTER] key to enter the setup mode. The ones place of the main display blinks. Press the [♣] or [♥] key to change the numerical value to "15."
- By pressing the [MODE• () key, the cursor moves left by one digit.
- By pressing the [] key at the leftmost digit, the cursor moves to the rightmost digit.
- Press the [ENTER] key to determine the settings.
- *1 The communication address settings are assigned to circuit A. When multi-address is used, the values

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