

# ORDERING INFORMATION

# MODEL : R9CWTU

## PLEASE FILL IN THIS SECTION



Model
Company
Name
P/O No.

## M-SYSTEM USE ONLY



Job No.	Approved by (Sales office)
Ser No.	Issued by (Sales office)
Sales	Approved by (Factory)
	Set by (Factory)

Ser No. \_\_\_\_\_

Specify the items you want to change.

Default setting will be used if not specified.

DEFAULT shows values in case of nothing specified.

### ■ CONFIGURATION MODE

ITEM	SET VALUE	DEFAULT VALUE	COMMENTS	Factory Internal check
Configuration Mode	<input type="checkbox"/> DIP switch setting <input type="checkbox"/> PC Configurator and communication	DIP switch setting	Specify setting method for system configuration, CT sensor type, CC-Link.  * DIP switch setting • Settings are changed according to DIP switch when power is turned on. • CT sensor type setting is common for all circuit. It is not available to specify except circuit 1. * PC Configurator and communication • The setting with DIP switch is not available.	<input type="checkbox"/>

### ■ INPUT SETTING

ITEM	SET VALUE	DEFAULT VALUE	COMMENTS	Factory Internal check
System configuration	<input type="checkbox"/> Single-phase / 2-wire (1CT) <input type="checkbox"/> Single-phase / 3-wire (2CT) <input type="checkbox"/> Three-phase / 3-wire, balanced load (1CT) <input type="checkbox"/> Three-phase / 3-wire, unbalanced load (2CT)	Three-phase / 3-wire, unbalanced load (2CT)		<input type="checkbox"/>
VT rating, Primary		110V	50 to 400 000 : Voltage (V)	<input type="checkbox"/>
VT rating, Secondary		110V	50 to 500 : Voltage (V) The secondary can be set up to 500V. However, this does not mean the unit accepts 500V for input. Do not use with the condition exceeding input rating written in the specification sheet of the unit.	<input type="checkbox"/>
Low-end cutout, Voltage		1.0	0.0 to 99.9 : (%) Rated voltage × Specified percentage	<input type="checkbox"/>

■ INPUT SETTING (FOR EACH CIRCUIT)

ITEM		SET VALUE	DEFAULT VALUE	COMMENTS	Factory Internal check
Circuit 1	CT rating, Primary		5A	1 to 20 000: Current (A) Valid only for the sensor type CLSE-R5. Selected sensor's rating is automatically set for other types of sensors.	<input type="checkbox"/>
	CT sensor type	<input type="checkbox"/> CLSE-R5 <input type="checkbox"/> CLSE-20 <input type="checkbox"/> CLSE-05 <input type="checkbox"/> CLSE-40 <input type="checkbox"/> CLSE-10 <input type="checkbox"/> CLSE-60	CLSE-R5		<input type="checkbox"/>
	Low-end cutout, Current		1.0	0.0 to 99.9 : (%) Rated current × Specified percentage	<input type="checkbox"/>
Circuit 2	CT rating, Primary		5A		<input type="checkbox"/>
	CT sensor type	<input type="checkbox"/> CLSE-R5 <input type="checkbox"/> CLSE-20 <input type="checkbox"/> CLSE-05 <input type="checkbox"/> CLSE-40 <input type="checkbox"/> CLSE-10 <input type="checkbox"/> CLSE-60	CLSE-R5	When configuration mode is 'DIP switch setting', it is not available to specify CT sensor for circuit 2 or later.	<input type="checkbox"/>
	Low-end cutout, Current		1.0		<input type="checkbox"/>
Circuit 3	CT rating, Primary		5A		<input type="checkbox"/>
	CT sensor type	<input type="checkbox"/> CLSE-R5 <input type="checkbox"/> CLSE-20 <input type="checkbox"/> CLSE-05 <input type="checkbox"/> CLSE-40 <input type="checkbox"/> CLSE-10 <input type="checkbox"/> CLSE-60	CLSE-R5		<input type="checkbox"/>
	Low-end cutout, Current		1.0		<input type="checkbox"/>
Circuit 4	CT rating, Primary		5A		<input type="checkbox"/>
	CT sensor type	<input type="checkbox"/> CLSE-R5 <input type="checkbox"/> CLSE-20 <input type="checkbox"/> CLSE-05 <input type="checkbox"/> CLSE-40 <input type="checkbox"/> CLSE-10 <input type="checkbox"/> CLSE-60	CLSE-R5		<input type="checkbox"/>
	Low-end cutout, Current		1.0		<input type="checkbox"/>
Circuit 5	CT rating, Primary		5A		<input type="checkbox"/>
	CT sensor type	<input type="checkbox"/> CLSE-R5 <input type="checkbox"/> CLSE-20 <input type="checkbox"/> CLSE-05 <input type="checkbox"/> CLSE-40 <input type="checkbox"/> CLSE-10 <input type="checkbox"/> CLSE-60	CLSE-R5		<input type="checkbox"/>
	Low-end cutout, Current		1.0		<input type="checkbox"/>
Circuit 6	CT rating, Primary		5A		<input type="checkbox"/>
	CT sensor type	<input type="checkbox"/> CLSE-R5 <input type="checkbox"/> CLSE-20 <input type="checkbox"/> CLSE-05 <input type="checkbox"/> CLSE-40 <input type="checkbox"/> CLSE-10 <input type="checkbox"/> CLSE-60	CLSE-R5		<input type="checkbox"/>
	Low-end cutout, Current		1.0		<input type="checkbox"/>
Circuit 7	CT rating, Primary		5A		<input type="checkbox"/>
	CT sensor type	<input type="checkbox"/> CLSE-R5 <input type="checkbox"/> CLSE-20 <input type="checkbox"/> CLSE-05 <input type="checkbox"/> CLSE-40 <input type="checkbox"/> CLSE-10 <input type="checkbox"/> CLSE-60	CLSE-R5		<input type="checkbox"/>
	Low-end cutout, Current		1.0		<input type="checkbox"/>
Circuit 8	CT rating, Primary		5A		<input type="checkbox"/>
	CT sensor type	<input type="checkbox"/> CLSE-R5 <input type="checkbox"/> CLSE-20 <input type="checkbox"/> CLSE-05 <input type="checkbox"/> CLSE-40 <input type="checkbox"/> CLSE-10 <input type="checkbox"/> CLSE-60	CLSE-R5		<input type="checkbox"/>
	Low-end cutout, Current		1.0		<input type="checkbox"/>

## ■ DEMAND SETTING

ITEM	SET VALUE	DEFAULT VALUE	COMMENTS	Factory Internal check
Average (demand) current update interval		30 minutes	1 to 30: Internal timer (Unit: minutes) Data updated at the integral multiple minute of the setting. (e.g. Setting = 15 minutes, Updated at 0, 15, 30 and 45 minutes every hour)	<input type="checkbox"/>
Average (demand) power update interval		30 minutes	1 to 30: Internal timer (Unit: minutes) Data updated at the integral multiple minute of the setting.	<input type="checkbox"/>

## ■ STYLE SETTING

ITEM	SET VALUE	DEFAULT VALUE	COMMENTS	Factory Internal check
Power factor (PF1 through PF3, PF) sign		0	0: Standard (IEC), Identical to the active energy 1: Special type 1 (IEEE), Positive in LAG, Negative in LEAD	<input type="checkbox"/>
Reactive power (Q1 through Q3, Q) sign		0	0: Standard (IEC), Positive from PF = 1.0 to 180° in LAG direction; Negative for the other direction 1: Special type 1, Positive in LAG, Negative in LEAD	<input type="checkbox"/>
Reactive power (Q1 through Q3) calculation (Q = Q1 + Q2 + Q3)		0	0: Standard ( $Q_n = \sqrt{S_n^2 - P_n^2}$ ) 1: Reactive power meter method $\left( Q_n = \frac{1}{N_{smp}} \sum_{i=1}^{N_{smp}} (U_{n_i} - N_i) I_{i+N_{smp}/4} \right)$	<input type="checkbox"/>
Apparent power (S) calculation		0	0: Standard ( $S = \sqrt{P^2 + Q^2}$ ) 1: Sum ( $S = S1 + S2 + S3$ )	<input type="checkbox"/>

Note: '1,' '2,' '3' in expressions like Q1, Q2, Q3 indicate 'R,' 'S,' 'T' respectively.

## ■ CC-Link SETTING

ITEM	SET VALUE	DEFAULT VALUE	COMMENTS	Factory Internal check
Station address		0	CC-Link Ver.1.10: 1 to 64 CC-Link Ver.2.0: 1 to 61	<input type="checkbox"/>
Baud rate	<input type="checkbox"/> 156kbps <input type="checkbox"/> 625kbps <input type="checkbox"/> 2.5Mbps <input type="checkbox"/> 5Mbps <input type="checkbox"/> 10Mbps	156kbps		<input type="checkbox"/>