

# ORDERING INFORMATION

## Model : M50EXWTU

### PLEASE FILL IN THIS SECTION



Model
Company
Name
P/O No.

### FACTORY USE ONLY



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

Specify the items you want to change. Default setting will be used if not specified.

ITEM	SET VALUE	DEFAULT VALUE	COMMENTS	FACTORY INTERNAL CHECK
Input wiring	<input type="checkbox"/> Single-phase/2-wire 4-circuit (circuit A, B, C, D) <input type="checkbox"/> Single-phase/3-wire 2-circuit (circuit A, C) <input type="checkbox"/> Three-phase/3-wire 2-circuit (circuit A, C) <input type="checkbox"/> Three-phase/4-wire 1-circuit (circuit A) <input type="checkbox"/> Single-phase/two-wire branched from single-phase three-wire 4-circuit (circuit A, B, C, D) <input type="checkbox"/> Single-phase 3-wire 1-circuit (circuit A) + Single-phase/two-wire branched from single-phase three-wire 2-circuit (circuit C, D)	Three-phase/ 3-wire 2-circuit (circuit A, C)		<input type="checkbox"/>
VT rating, primary		110	50 to 400 000 : Voltage (V) If VT is not used, enter the same value for primary and secondary.	<input type="checkbox"/>

ITEM		SET VALUE	DEFAULT VALUE	COMMENTS	FACTORY INTERNAL CHECK
VT rating, secondary			110	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"/>
Circuit A CT sensor	Sensor type	<input type="checkbox"/> CLSE-R5 <input type="checkbox"/> CLSE-05 <input type="checkbox"/> CLSE-10 <input type="checkbox"/> CLSE-20 <input type="checkbox"/> CLSE-40 <input type="checkbox"/> CLSE-60	CLSE-R5	Select same sensor type for circuit A and B, and circuit C and D.	<input type="checkbox"/>
	Primary current		5	Specify from 1 to 20000 A when CLSE-R5 is selected.	<input type="checkbox"/>
	Measured point	<input type="checkbox"/> 1 - N <input type="checkbox"/> 3 - N <input type="checkbox"/> 1 - 3		Specify 2 wires to measure only when measuring single-phase/2-wire branched from single-phase/3-wire.	<input type="checkbox"/>
Circuit B CT sensor	Sensor type	<input type="checkbox"/> CLSE-R5 <input type="checkbox"/> CLSE-05 <input type="checkbox"/> CLSE-10 <input type="checkbox"/> CLSE-20 <input type="checkbox"/> CLSE-40 <input type="checkbox"/> CLSE-60	CLSE-R5	Select same sensor type for circuit A and B, and circuit C and D.	<input type="checkbox"/>
	Primary current		5	Specify from 1 to 20000 A when CLSE-R5 is selected.	<input type="checkbox"/>
	Measured point	<input type="checkbox"/> 1 - N <input type="checkbox"/> 3 - N <input type="checkbox"/> 1 - 3		Specify 2 wires to measure only when measuring single-phase/2-wire branched from single-phase/3-wire.	<input type="checkbox"/>

ITEM		SET VALUE	DEFAULT VALUE	COMMENTS	FACTORY INTERNAL CHECK
Circuit C CT sensor	Sensor type	<input type="checkbox"/> CLSE-R5 <input type="checkbox"/> CLSE-05 <input type="checkbox"/> CLSE-10 <input type="checkbox"/> CLSE-20 <input type="checkbox"/> CLSE-40 <input type="checkbox"/> CLSE-60	CLSE-R5	Select same sensor type for circuit A and B, and circuit C and D.	<input type="checkbox"/>
	Primary current		5	Specify from 1 to 20000 A when CLSE-R5 is selected.	<input type="checkbox"/>
	Measured point	<input type="checkbox"/> 1 - N <input type="checkbox"/> 3 - N <input type="checkbox"/> 1 - 3		Specify 2 wires to measure only when measuring single-phase/2-wire branched from single-phase/3-wire.	<input type="checkbox"/>
Circuit D CT sensor	Sensor type	<input type="checkbox"/> CLSE-R5 <input type="checkbox"/> CLSE-05 <input type="checkbox"/> CLSE-10 <input type="checkbox"/> CLSE-20 <input type="checkbox"/> CLSE-40 <input type="checkbox"/> CLSE-60	CLSE-R5	Select same sensor type for circuit A and B, and circuit C and D.	<input type="checkbox"/>
	Primary current		5	Specify from 1 to 20000 A when CLSE-R5 is selected.	<input type="checkbox"/>
	Measured point	<input type="checkbox"/> 1 - N <input type="checkbox"/> 3 - N <input type="checkbox"/> 1 - 3		Specify 2 wires to measure only when measuring single-phase/2-wire branched from single-phase/3-wire.	<input type="checkbox"/>
Do1 pulse setting	Operation mode	<input type="checkbox"/> Normal open <input type="checkbox"/> Normal close	Normal open		<input type="checkbox"/>
	Measured energy		EP	Specify the items by symbol from Table 1.	<input type="checkbox"/>
	Energy per pulse		0.1 kW	Specify from 0.01 to 1000.00 kW	<input type="checkbox"/>
	Pulse width		100 msec.	Specify from 100 to 2000 msec. (in 100 msec. increments)	<input type="checkbox"/>
	Measured circuits	<input type="checkbox"/> A + <input type="checkbox"/> B + <input type="checkbox"/> C + <input type="checkbox"/> D		Put checks to measured circuits. By selecting multiple circuits, total energies are measured.	<input type="checkbox"/>

ITEM		SET VALUE	DEFAULT VALUE	COMMENTS	FACTORY INTERNAL CHECK
Do2 pulse setting	Operation mode	<input type="checkbox"/> Normal open <input type="checkbox"/> Normal close	Normal open		<input type="checkbox"/>
	Measured energy		EP	Specify the items by symbol from Table 1.	<input type="checkbox"/>
	Energy per pulse		0.1 kW	Specify from 0.01 to 1000.00 kW.	<input type="checkbox"/>
	Pulse width		100 msec.	Specify from 100 to 2000 msec. (in 100 msec. increments)	<input type="checkbox"/>
	Measured circuits	<input type="checkbox"/> A + <input type="checkbox"/> B + <input type="checkbox"/> C + <input type="checkbox"/> D		Put checks to measured circuits. By selecting multiple circuits, total energies are measured.	<input type="checkbox"/>
Frequency input		<input type="checkbox"/> Voltage signal <input type="checkbox"/> 50 Hz fixed <input type="checkbox"/> 60 Hz fixed	Voltage signal		<input type="checkbox"/>
Low-end cutout, current	Circuit A		1.0%	0.0 to 99.9% of rated current value x % of specified value	<input type="checkbox"/>
	Circuit B		1.0%		<input type="checkbox"/>
	Circuit C		1.0%		<input type="checkbox"/>
	Circuit D		1.0%		<input type="checkbox"/>
Calculation	Power factor sign	<input type="checkbox"/> IEC <input type="checkbox"/> IEEE	IEC	IEC: Identical to the active energy IEEE: Positive in LAG, Negative in LEAD	<input type="checkbox"/>
	Reactive power sign	<input type="checkbox"/> IEC <input type="checkbox"/> Inverts sign at outgoing	IEC	IEC: Positive from PF = 1.0 to 180° in LAG direction; Negative for the other direction Inverts sign at outgoing: Positive in LAG, Negative in LEAD	<input type="checkbox"/>
	Each phase reactive power calculation	<input type="checkbox"/> Reactive power meter method <input type="checkbox"/> Vector S - P	Reactive power meter method		<input type="checkbox"/>
	Apparent power calculation	<input type="checkbox"/> Vector P+Q <input type="checkbox"/> S1+S2+S3	Vector P+Q		<input type="checkbox"/>
	Measuring mode	<input type="checkbox"/> Standard measuring <input type="checkbox"/> Simple measuring	Standard measuring	Voltage and power factor are fixed at simple measuring	<input type="checkbox"/>
	Power factor at simple measuring		1.0000	Specify from 0 to 1.0000.	<input type="checkbox"/>

ITEM		SET VALUE	DEFAULT VALUE	COMMENTS	FACTORY INTERNAL CHECK
Modbus	Node address		1	Specify from 1 to 247.	<input type="checkbox"/>
	Baud rate	<input type="checkbox"/> 1200 bps <input type="checkbox"/> 2400 bps <input type="checkbox"/> 4800 bps <input type="checkbox"/> 9600 bps <input type="checkbox"/> 19200 bps <input type="checkbox"/> 38400 bps	38400 bps		<input type="checkbox"/>
	Parity	<input type="checkbox"/> None <input type="checkbox"/> Odd <input type="checkbox"/> Even	Odd		<input type="checkbox"/>
	Stop bit	<input type="checkbox"/> 1 <input type="checkbox"/> 2	1		<input type="checkbox"/>
Display	Display timeout	<input type="checkbox"/> Off (always on) <input type="checkbox"/> 1 min. <input type="checkbox"/> 5 min. <input type="checkbox"/> 10 min.	10 min.		<input type="checkbox"/>
	Brightness	<input type="checkbox"/> Low <input type="checkbox"/> Normal	Normal		<input type="checkbox"/>

Table 1 Selectable Energy Count Pulse

SYMBOL	DESCRIPTION
EP	Active energy, incoming
EQ	Reactive energy, LAG
ES	Apparent energy
EP-	Active energy, outgoing
EQ-	Reactive energy, LEAD
EQ+LAG	Reactive energy, incoming, LAG
EQ+LEAD	Reactive energy, incoming, LEAD
EQ-LAG	Reactive energy, outgoing, LAG
EQ-LEAD	Reactive energy, outgoing, LEAD
EQ+P	Reactive energy, incoming
EQ-P	Reactive energy, outgoing
EQA	Reactive energy, (incoming + outgoing) kvarh