

LM305Z576H05 諁

Electronic Multi-Measuring Instrument Types: ME96SSHB-MB / ME96SSRB-MB / ME96SSEB-MB User's Manual (Digest version)

Be sure to read this manual carefully in order to properly use this instrument. This manual must be forward to the end user and be kept ready to hand and accessible for future use at all times

Features

- Common to every type
 Common to every type
 This instrument measures the load status by wiring the secondary sides of VT (Voltage Transformer) and CT (Current Transformer) and displays various measured values.
 The password protection prevents accidental setting change and losing measured data.
 The MODBUS RTU communication function transmits measured data to superior monitoring systems.
 The support function for confirming input wiring connections can determine the wiring condition in the test mode. When incorrect wiring occurs by either voltage input or current input, the function displays the wrong parts on the screen, and also shows the phase angle for current/voltage and the active power/voltage/current value.
 MFG6SSBL-MB and MEGSSBL-MB also have the following features:

- ME96SSHB-MB and ME96SSRB-MB also have the following features:
- The measurement of high-order harmonics is supported.
 Active energy can be measured by dividing into three time period such as peak/off-peak/shoulder. (Periodic active energy)
 This instrument enables measurement of the energy in a block of any period (interval) (Rolling Demand).
- By using the option plug-in module:
 The transmission function such as CC-Link communication or MODBUS TCP communication send the measured data
- > The transmission function such as CC-Link communication or modeled to the transmission function such as CC-Link communication or modeled to the togging function enables the backup of measured values even when MOCBUS RTU communication error occurs.
 > Only one unit can output key measuring elements such as current, voltage, active power, power factor, and active energy at the power receiving point. It is ideal for remote monitoring.
 The built-in logging function provides the logging of measured values, alarm logs, and system logs into the instrument.
 *MODBUS is a registered trademark of SCHNEIDER ELECTRIC USA, INC in the United States.

1. Safety precaution

For personnel and	product safety, be sure to read and observe the p						有害物质			5—	/
	The caution icon (A) on the main un			部件名称	铅汞		六价铬		多溴二苯醚	5—	
	TION conditions. Always follow the subsequ personal safety. Otherwise, there is dar			基板	(Pb) (H		(Cr (VI))	(PBB)	(PBDE)		SET TEST (
	damage to the instrument. If the inst			箱子	Ô		0	l ŏ l	- ŏ		789
	manufacturer, it might impair the protect	ion provided by the product.		金属零件	l o l o		Õ	ŏ	ŏ		
•	The terminals of auxiliary power (MA, MB) and			螺钉	0 0		0	0	0		LEAD statu
CAUTION	shock, explosion, or arc flash. Turn off the auxil working on the product.	ary power and the power supply of	the input circuit prior to	端子盖	0 0		0	0	0	2	LAG status
Precautions or	n operating environment and conditions			铭牌 本表格依据SJ/T1136			0	0	0	3	Built-in Log
Do not use the ins	strument in the following places. Otherwise, there is	s danger of a malfunction or reduction	on life of the product.	 ○:表示该有害物质在 			量均在GB/T	26572规定的	限量要求以下。	4	Digital elem
	temperature exceeds the range -5°C to +55°C numidity exceeds the range 0 to 85%RH, or	 The average daily temperature The altitude exceeds 2000 m. 	exceeds +35°C.	X:表示该有害物质至							Digital displ
condensation		 Pollution Degree: more than 2 	(Note 1)	且虽然目前业界没有成	熟的替代方案,	但是符合國	盟RoHS指令書	要求。			Unit
	nuch dust, corrosive gas, salty environment, or	 Exposed to excessive vibration 	or impact							7	
oil mist Transient over	er voltage: 4000 V (Note 1)	 Exposed to direct sunlight 									
 Exposed to rate 	ain or water drips	 Exposed to a strong electromage 	gnetic field or large	5.Wiring d	liagran	n					
	tal or similar substances are scattered	exogenous noise		Rating voltage	for each p	hase wir	e system				
	definition of the Pollution Degree and the Transier I insect and so on will cause such faults as poor of							_			
and moisture-a	bsorbed. In an atmosphere where conductive	oowder floats, it will cause such a	as malfunction of the		~		. ~~	-	5	_	
instrument, dete	eriorated insulation and so on in a short time. In as placing in a totally enclosed enclosure. Also, if t	such a case, the instrument is nee	ded to take adequate	<u> </u>	6.3		7		7	3	8
	installation and wiring connection	ne menciosure temperature rises, t	ake measures for triat.	÷ ζ	ţ C ' ' C		÷ζ	_	ζ	Ţ	
	lectrician must install and wire the instrument for s			Figure1. 3-PHASE 4-WIRE(STAR)	Figure2. 3-PHA 3-WIR	ISE FI E(DELTA)	gure3. 3-PHA 3-WIRE	SE Fig E(STAR)	gure4. 1-PHASE 3-WIF	Figure5.	1-PHASE Fig WIRE(DELTA)
	y power to the instrument until completing its asse ent is to be mounted on a panel. All connections m			. ,		. ,		. ,	0.111	-	. ,
	g table shows specifications on the input/output ter			Phase wire type		tion type			ig voltage		Figure No.
 Auxiliary po 	wer supply and measuring elements.			3-phase 4-wire		tar			-N)/480 V A0) (L-L)	Figure 1
Auxiliary pow	er supply 100 to 240 V AC (±15%) 50 Hz to 60 100 to 240 V DC (-30% + 15%)	Hz	MA, MB terminals	3-phase 3 wire		elta		20 V AC (L			Figure 2
	3-phase 4-wire: Max 277 V AC (L-N	I) /480 V AC (L-L)		1-phase 3 wire		tar		0 V AC (L-	-L) -N)/440 V A0	2 (1 1)	Figure 3 Figure 4
	3-phase 3-wire: (DELTA) Max 220			1-phase 3-wire		elta		20 V AC (L		/ (L-L/	Figure 5
1	Voltage (STAR) Max 440 V 1-phase 3-wire: Max 220 V AC (L-N		P1, P2, P3, PN terminals	(Note)		tar		40 V AC (L			Figure 6
Elements	1-phase 2-wire: (DELTA) Max 220		termindis	Note: In regard to	the circuit dr	awn from ·				nd that of ·	
	(STAR) Max 440 V				rmer, the ma				connection ai		1 1-pilase 2-wii
0	Current 5 A (CT secondary side), Max 30 V A	C Category III	+C1, C1, +C2, C2, +C3, C3 terminals						3-phase 3-wire	type and	the circuit draw
F	Frequency 50 Hz or 60 Hz		100, 00 terminais	from a 1-ph	ase 3-wire ty	pe, the ma	ximum ratir	ng is "440 V	/ AC."		
	out terminals must be connected to CT, external ec			3 phase 3-wire	2CT syste	-m			3-nha	se 3-wire	e 3CT systen
 Be sure to com Others 	tinuously connect the terminals for voltage-measure	ing circuit and current-measuring ci	rcuit during operation.		2010,000						ee eyeten
MODBUS RT	U communication T/R+,T/R-,SG terminals	Max 35 V DC		1 2 3 With V	т	123	Direct	input	123	With V	т
 Do not drop 	the instrument from high place. If you drop it and or do not get it in your mouth. If you touch the liqui	crack its display, do not touch the	liquid leaking from the	K k		- к k			Кĸ		+C1
	of do not get it in your mouth. If you touch the liquid		ce.		+C1			+C1			
	in live-line condition. Otherwise, there is danger of				C1 +C2	니니		+C2	K		+C2
 When tappin If the terminal 	g or wiring, take care not to enter any foreign obje al wiring is pulled with a strong force, the terminals	cts such as chips and wire pieces in may come off (Tensile load: 39.2 N	to the instrument.				k	C2	L		
 Check the wi 	iring diagram carefully. Wrong wiring can cause an	instrument failure, an electric shock	k, or a fire.		+C3	l ľs	~	+C3			+C3
	opriate wire size compatible with the rated current. ed terminal compatible with the wire size. Otherwis				<u> </u>		I			-ng	P1
	i fire due to damage to the terminal or contact failu		anure or the instrument,	ि जिंह	P1 NC			NC			NC
	erminal screws with a specified torque and use a s	uitable pressure connector. Excessiv	ve tightening can cause			+		P3		U3 Eu T	
	ne terminals and screws. confirm the wiring connection strictly after its wo	rk. Forgetting to connect can caus	e a malfunction of the	111 38		_ 		P2	↓	<u>36r</u>	L_P2
instrument, a	an electric shock, or a fire.										
	revent the invasion of noise, communication wires d close to or bound together with power lines or h			Load	Ļ	Load			Load	*	•
high voltage	lines, refer to the following table for the separation										
	Conditions Distance			Optional plug-							
Other pow	es of 600 V AC or less 300 mm or more er lines 600 mm or more			SD card ME-0000BU-SS96		DBUS I	CP comr	nunicatio 140MT2-SS9			CC-Lin ME-0040C-
	onductor terminals for mains circuits shall be at lea	st equivalent in current-carrying cap	acity to the mains	ME-0000BU25-SS96	IVIE-00	001011-339	D IVIE-UU	4010112-338	10		
supply termin				SD			Γ		- Digital	l input 1	
	ive conductor terminals are also used for other bound independently of other connections.	laing purposes, the protective condi-	uctor snall be applied	CARD					Digital	l input 2	
Precautions or	n operation									l input 3 I input 4	FG
	ing the instrument, check that active bare wire d nediately, and take an appropriate action such as is		wire exists, stop the							input i	
	age occurs during the setting, the instrument will b		power recovery.					24	+ V DC		
	 Do not disassemble or modify the instrument 	. Otherwise, an instrument failure, a	n electric shock, or a fire								DI1
	could be caused.Use the instrument within the ratings specified	in the manual. If it is used outside the	ne ratinos, it can cause								DI2
	not only malfunctions or failure but also ignition	n or burnout.									DI3 DI4
CAUTION	 Do not open the secondary side of the CT c side of the CT is open, it will result in high v 				ET	HERNET	ETH	ERNET			DICOM
	rise. Therefore, the insulation of the secondar	y winding wire can be broken. This	may cause burnout.		Li		ort Li		s		
	 When the external terminals are connected 	d to external equipment, the exte	rnal equipment and the								
	 instrument must not be powered and not be u The rating of the terminal of external equipme 			Analog output	/Pulse out	put /Alar	m output/	DI 🔳 🛙	DI, DO		
 Precautions or 	n maintenance			ME-4210-SS96B				ME	E-0052-SS96		24 V DC
 Wipe dirt off the 	he surface with a soft dry cloth.	and a set of a 16 with the second of the		CH1+			CUI	Г	DI1+		_ → _).
 Do not contact Check for the second contact 	t a chemical cloth to the instrument for a long time following items to use this instrument properly for a	, or do not wipe it with benzene, thin a long time.	ner, or alconol.	CH1-	An	alog outpu	СПІ		DI1-		∳}□
(1)Daily maintena	ince (a)No damage on the instrument (b)No abno		bnormal noise, smell, or	CH2+ CH2-	An	alog outpu	CH2		DI2+		-† }∟
heat (2)Periodical main	ntenance (Every 6 months to 1 year) (a)No loosene	ss with installation and wire connect	tion	CH3+		alaa ci ta	0112		DI2- DI3+	/	
	Do periodical maintenance under power outa	ge condition. Failure to do so may		CH3-	An	alog outpu	CH3		DI3-		}□
	instrument failure, or fire. Tighten the terminal r	egularly to prevent fire.		CH4+	Ana	alog output	CH4		DI4+)	}c
Precautions or To store the instru	n storage ument, turn off the power, remove the wires, and	but them in a plastic had. For long	time storage Avoid the	C1A/A1				.	DI4- DI5+		
following places. C	Otherwise, there is danger of a failure or reduction	life of the product.		C1B/COM1	Pul:	se output1 /	Alarm output		DI5-		}c
 The ambient 	temperature exceeds the range -25°C to +75°C humidity exceeds the range 0 to 85%RH or	 The average daily temperature Exposed to excessive vibration 		C2A/A2 C2B/C0M2	Pul	se output2 /	Alarm output:	2	D01+		}c
 The relative condensation 		- Exhosen to excessive vibigtion	or impact	DI+	/ _ ~	ital ist			D01- D02+].
 Exposed to m 	nuch dust, corrosive gas, salty environment, or	 Exposed to rain or water drips 				gital input		Į	D02-		}¤
oil mist Pieces of met	tal or similar substances are scattered	 Exposed to direct sunlight 		24	4 V DC						
								DI1-	DI2DI3D	14DI5-e	are connected

- Precautions on disposal
- Men disposing of the instrument, treat it as industrial waste. ME-0000BU-SS96 or ME-0000BU25-SS96, an optional plug-in module, has built-in lithium battery. Lithium batteries are disposed of according to the local regulations. In EU member states, there is a separate collection system for waste batteries. Dispose of batteries properly at the local community waste
- Ø In contention of a state, there is a separate concessor space of the state backgroup of the unit. [Note] This symbol mark is for EU countries only. This symbol mark is according to the directive 2012/19/EU Article 14 Information for users and Annex IX, and to the directive 2006/66/EC Article 20 Information for end-users Annex II. This symbol means that electrical and electronic equipment, batteries and accumulators, at their end-of-life, should be disposed of separately from your hou
- lacement cycle of product It is recommend that you renew the product every ten years although it depends on your use condition. The long-term use of the product may cause discoloration of the LCD or a product malfunction

Figure6. 1-PHASE 2-WIRE(STAR

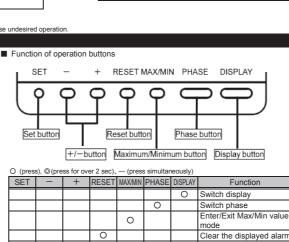
Ð

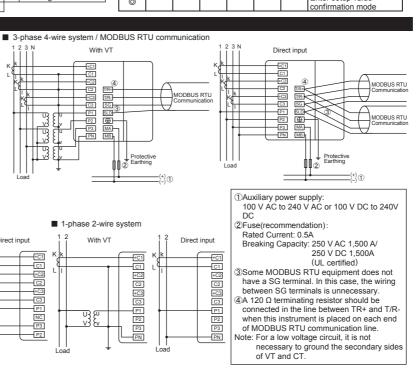
Warranty The warranty period is 1 year from the date of your purchase or 18 months after manufacturing, whichever is earlier. However, if failure of the product is caused by the user's intent or negligence, the charge will be made for such repair even under warranty. Our company shall not be liable to compensate for any loss arising from events not attributable to our company, the opportunity loss and lost profits of the customer due to failure of the product, and the loss, secondary loss, accident compensation, damage to other products besides our products, and other operations caused by special reasons regardless of our company's predictability

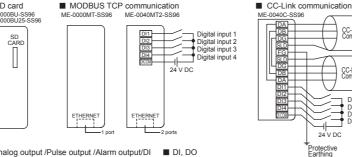
CAUTION When abnormal sound, odor, smoke, or heat is confirmed, stop using the instrument and turn off the power immediately This instrument complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: This instrument may not cause harmful interference, and (2) This instrument must accept any interference rec ference that may cause undesired operation 3. Contained harmful substances 4. Display and Button Function Display ■电器电子产品有害物质限制使用标识 2 根据《电器电子产品有害物质限制使用管理办法》,该标 SET _ LAG>m LÓG 记适用于在中国销售的电器电子产品,其中的数字为产品 的环保使用期限。只要遵守本产品在安全和使用方面的注意 1200 A AVG 0 \circ 事项,从生产日算起的环保使用期限内不会造成环境污染 或对人体、财产产生深刻的影响。 注)产品正常使用废弃后,应按照国家和地方的法律法规完成 +-|*Ł-Ł*AVG 5500 v 4-该电器电子产品的回收和再利用。 **1303*** " Set button ■产品中有害物质的名称及含量 本产品中所含有的6种有害物质的名称、含有信息及含有部件如下表所示。 '*\ | | |*Ω⊧ 有害物 六价铬 多溴联苯 多溴二苯醚 5-Шh (Cr (VI)) (PBB) (PBDE) 7 8 9 10 11 12 1 LEAD status 8 Test mode status 2 LAG status 9 Clock status 10 Upper/lower limit alar status 3 Built-in Logging status 0 示该有害物质在该部件所有均质材料中的含量均在GB/T 26572规定的限量要求以下。 1 Communication status 0 4 Digital element display &示该有言物所正必通行所有的不均均下均2日至少1500~2002年及为数子。 发示该有言物质至少在该部件的某一均质材料中的含量超出BB/T26672规定的限量要求。 然目前业界没有成熟的替代方案,但是符合欧盟RoHS指令要求。 5 Digital display 6 Unit 12 Harmonics status -0

3 Metering status

0







Digital input 3

Digital input 4

Digital input 5

Digital output

Digital output 2



Direct input

+C2

Appropriate Wire Specification CC-Link Communication ME ME Digital input 1 Digital input 2 Digital input 2 Digital input 3 Digital input 4 24 V DC Opt mo ME ME ME Protective Earthing ⊢⊢__}Digital input 1 Digital input 2

Do not connect terminals or RJ-45 connectors to the product in live-line condition . Do not insert or remove a SD card under live-line condition . Do not open the secondary side of CT during power on the primary side current. . Avoid the short circuit of the secondary side of VT. Use an appropriate wire size compatible with the rated current and voltage.

CAUTION

Product type	Screw type	Wire for use	Tightening torque					
ME96SSHB-MB, ME96SSRB-MB	M3	For crimped terminal: AWG 26 to 14 (Connection up to two wires)	0.8 N·m					
ME96SSEB-MB	WIG .	Appropriate crimped terminal: One for M3 screw 6.0 mm or less in outer diameter	0.5 N·m					
Optional plug-in module: ME-4210-SS96B, ME-0052-SS96, ME-0040C-SS96	Non-screw	Single wire, Stranded wire: AWG 24 to 14 (For stranded wire, possible in combination with rod terminals) The peeling size of the cable sheath: 10 to 11 mm '1: If complying with UL standards, follow the conditions listed below. Single wire, Stranded wire: AWG 24 to 18 • Rod terminals are not available. '2: When using a rod terminal with insertion points of two wires, select the terminal that insertion hole depth of the terminal block is 12 to 13 mm as a guide.	_					
Optional plug-in module: ME-0040MT2-SS96		Single wire, Stranded wire: AWG 24 to 16 (For stranded wire, possible in combination with rod terminals) The peeling size of the cable sheath: 8 mm Rod terminals (without plastic sleeve): 0.2 to 1.5 mm ² Rod terminals (with plastic sleeve): 0.2 to 0.75 mm ²	_					
When using bare crimped terminals, prevent electric shock or short circuit by providing the necessary insulation with an insulating tube not to expose the charger.								
. To use ME-0000BU-SS96 or ME-0000BU25-SS96, an optional SD card is necessary. Use EMU4-SD2GB, which is a SD card manufactured by Mitsubishi Electric Corporation.								
For MODBUS TCP communication, use an appropriate cable compatible with IEEE802.3.								

DI1-.DI2-.DI3-.DI4-.DI5-are connected inside.

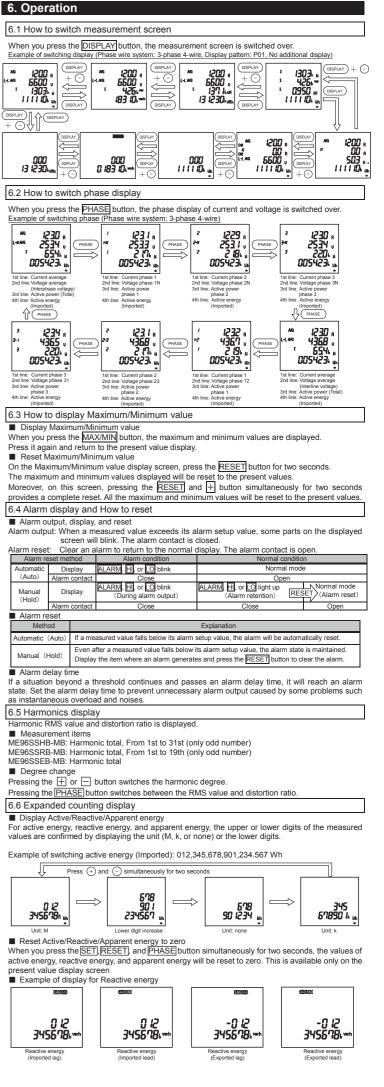
2. Check on your delivery unpacking your package



Clear all alarms at once

Enter setup value

Enter setup value



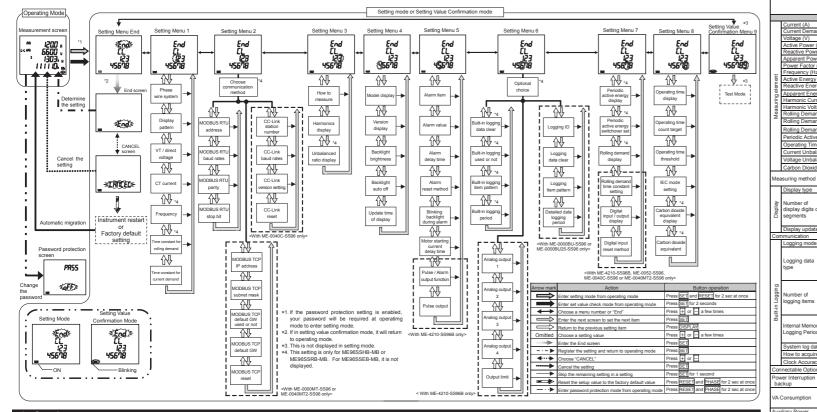


How to set

- TOW to set:
 Tow to se

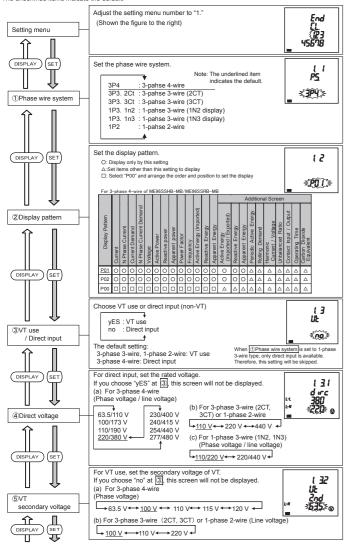
4. Set each setting item.

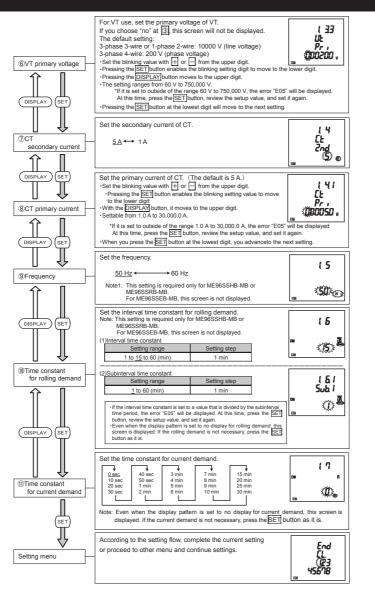
After completing the setting, choose "End" on the screen and press the <u>SET</u> button
 Confirm the End screen and press the <u>SET</u> button again.



8. Setting

At setting menu 1, set the following basic items for the correct measurement. In operating mode, pressing the <u>SET</u> and <u>RESET</u> button simultaneously for two seconds or more enables the following operation. The setting items are different from each model type. For more information, see the detailed version of the user's manual for each model type. The underlined items indicate the default.





Built-in logging on-volatile memory is used (Item: Setup value, Logging data, System log data) 1 VA/phase (at 110 V AC), 0.2 VA/phase (at 220 V AC), 0.4 VA/phase(at 440 V A Auxiliary power cir diliary Pov 16 × 96 × 90 mm (depth of meter from housing mounting flange) [13 mn Embedded type -5°C to +55°C (average daily temperature: 35°C or less), 0 to 85% RH, -25°C to +75°C (average daily temperature: 35°C or less), 0 to 85% RH Operating temperat torage temperature / humidity 1: ME-0040MT2-SS96 is only applicable to ME96SSHB-MB.

for verifying safe use of those SD memory cards.

urement data

urement data

The recorded time of the

Min value

Alarm log

rm log

rm log

9. Specification

tive Energy (V

Rolling Demand Apparent Po

Periodic Active Energy (

Operating Time

ogging data

mber of

ogging item

aaina Per

How to acquire logging data

tage

			Input / O	utput Specificati	on		1	Standard	Safety	Europe	CE, as per IEC61010-1: 2010 (3rd Edition)
Model name	Analog output	Pulse / Alarm output	Digital input	Digital output	Communication	Logging function				USA and Canada	UL, cUL recognized as per UL61010-1: 2012 (3 rd Edition),
ME-4210-SS96B	4 ch	2 ch	1 ch	-	-	-				Installation Category	IEC61010-1: 2010 (3 rd Edition)
ME-0040C-SS96	-	-	4 ch	-	CC-Link	-	1			Measuring Category	
ME-0052-SS96	-	-	5 ch	2 ch	-	-	1			Pollution Degree	2
ME-0000MT-SS96	-	-	-	-	MODBUS TCP 1 port	-	1		EMC	Emission	EN61326-1/CISPR 11, FCC Part15 Subpart B Class A,
ME-0040MT2-SS96	-	-	4 ch	-	MODBUS TCP 2 ports (*1)	-	1				EN61000-3-2, EN61000-3-3
ME-0000BU-SS96	-	-	-	-	-	6 items	1			Immunity	EN61326-1/EN61000-4-2, EN61000-4-3, EN61000-4-4,
ME-0000BU25-SS96	-	-	-	-	-	25 items	1				EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-1

confirmed in the setting menu 4.2. *1: 2 ports for daisy chain, one IP address

12. Installation

Install on panel Panel hole dim ①Attach the mounting brackets to the top and bottom of the main unit.
②Tighten the screws of the mounting brackets to fix them to the panel. Do not over-tighten the screws in order to avoid damage to the panel and screws. In addition, tighten all the screws uniformly A recommended torque for this product is 0.3 N•m to 0.5 N•m, which is about half the size of a bracke normal torque. 92 ^{+0.5} [mm] Install on a panel 1.6 to 4.0 mm thick

13. External Dimensions

ME96SSHB-MB_ME96SSRB-MB ME96SSEB-MB İΠ 0000 Terminal screw M3 96.0 \screw M3 96.0

[mm]

삐

ME96SSH0-MB / ME96SSR0-MB / ME96SSE0-MB									
3-Phase 4-Wire, 3-Phase 3-Wire (3CT, 2CT), 1-Phase 3-Wire, 1-Phase 2-Wire (common use)									
5 A AC, 11 A C (common use) 3 - chase 4 - wire: max 2774 RO V AC									
3- phase 3- wire: (DELTA) max 220 V AC, (STAR) max 440 V AC									
1 - phase 3 - wire: max 220/440 VAC 1 - phase 2 - wire: (DELTA) max 220 VAC (STAR) max 440 VAC									
1-pitals 2 / wite, (DELTA) into 2 / VAL, (STAR) into 440 VAC									
Measuring Item	ME96SSHB-MB	ME96SSRB-MB	ME96SSEB-MB						
A1, A2, A3, AN, A _{AVG} DA1, DA2, DA3, DAN, DA _{AVG}	+0.1%	±0.2%							
V12, V23, V31, Vavg(L-L), V1N, V2N, V3N, Vavg(L-N)	20.176	20.276							
W1, W2, W3, ΣW			±0.5%						
var1, var2, var3,Σvar	±0.2%								
VA1, VA2, VA3, ΣVA PF1, PF2, PF3, ΣPF		±0.5%							
Hz	±0.1%	±0.1%	±0.2%						
Imported, Exported	class 0.5S (IEC62053-22)	class 0.5S (IEC62053-22)	class 0.5S (IEC62053-22)						
Imported lag, Imported lead, Exported lag, Exported lead	class 1S (IEC62053-24)	class 1S (IEC62053-24)	class 1S (IEC62053-24)						
Imported + Exported	±2.0%	±2.0%	±2.0%						
Total, Individual (Odd) Total, Individual (Odd)	±1.0% (total, 1st to 31st)	±1.0% (total, 1st to 19th)	±2.0% (total)						
Rolling block, Fixing block (Select either of them according to the settings.)	±0.2%	±0.5%	_						
Rolling block, Fixing block (Select either of them according to the settings.)		±1.0%	_						
Rolling block, Fixing block (Select either of them according to the settings.)		±1.0%							
Periodic active energy 1, Periodic active energy 2, Periodic active energy 3		class 0.5S							
Operating time 1, Operating time 2	(Reference)	(Reference)	(Reference)						
Aunb	(Reference) (Reference)	(Reference)	-						
Vunb	(Reference) (Reference)	(Reference) (Reference)							
kg A·V: RMS value calculation, W·var·VA·Wh·varh·VAh: Digital multiplication		(Reletence)							
DA: Thermal type calculation, DW • Dvar • DVA: Rolling demand calculation			DA: Thermal type calculation						
LCD with LED backlight			bre memorype edibulation						
First to third line indication: 4 digits, Fourth line indication: 6 digits A, DA, V, W, var, VA, PF, DW, Dvar, DVA: 4 digits Hz: 3 digits Wh, varh, Harmonic distortion ratio / content rate: 4 digits Harmonic RMS value: 4 d	A, DA, V, W, var, VA, PF, DW, Dvar, DVA: 4 digits Hz: 3 digits Wh, varh, VAh: 9 digits (6 digit or 12 digit is also available) Harmonic distortion ratio / content rate: 4 digits								
-			Harmonic RMS value: 4 digits Operating time: 6 digits						
0.5 s. 1 s (selectable)									
MDDBUS RTU communication — — — — — — — — — — — — — — — — — — —									
Measuring data and time data are logged at the interval set at the data logg									
*It is output not the difference values but the display values of the instrument	-								
Time data at alarm generating/cancellation and at waiting for alarm cancella	—								
Max/Min value data and time data	_								
Integrated value data: 5 items, Data other than integrated value: 15 items, 7	-								
The number of the set alarms The total is 19 elements: Current Max/Min (AVG), Line VoltageMax/Min (AV (AVG), Total Reactive Power Max/Min (AVG), Total Apparent Power Max/M Distortion Ratio Max Total	-								
30 days (Logging period: 15 minutes), 60 days (Logging period: 30 minutes	s), 120 days (Logging period: 60 minutes)								
100 records									
1 record for every Max/Min value factor	—								
100 records									
Acquire the logging data via MODBUS RTU Communication	-								
minute difference / Monthly (typical) -									
ME-#210-SS988, ME-0040C-SS986, ME-0032MT-SS98, ME-0000MT-SS58, ME-0000MT-SS58 (1), ME-0000BU-SS586 (2), ME-0008U-SS586 (2), ME									
Non-volatile memory is used (item: Setup value, Maximin value, Active ene Non-volatile memory is used (item: Setup value, Logging data, System log									
0.1 VA/phase (at 110 V AC), 0.2 VA/phase (at 220 V AC), 0.4 VA/phase(at 4									
0.1 VA / phase									
13 VA (at 110 V AC), 14 VA (at 220 V AC), 9 W (at 100 V DC)			4 VA (at 110 V AC), 5 VA (at 220 V AC), 3 W (at 100 V DC)						
100 to 240 VAC (±15%), 100 to 240 VDC (-30% ±15%) 05 kg 05 kg 0.3 kg									
96 × 96 × 90 mm (depth of meter from housing mounting flange) [13 mm]									
Embedded type									
-5°C to +55°C (average daily temperature: 35°C or less), 0 to 85% RH, non-condensing									

*2: An optional SD memory card is necessary to use an optional module, ME-0000BU-SS96 or ME-0000BU25-SS96. Use a SD memory card, EMU4-SD2GB, manufactured by Mitsubishi Electric Corporation. If a SD memory card not manufactured by Mitsubishi Electric Corporation is used, it may cause a problem such as data corruption in the SD card or system stop. Regarding the use of commercially available SD memory cards, access our FA website. Note that the customer is responsible

 Install an optional plug-in module Remove the option cover. 				②Install the op	②Install the optional plug in module on the main unit.							
Option Cover												
Not	e: Turn off the po	wer sup	ply before	e the installation.								
14. Sy	mbols											
1	Direct current	2	~	Alternating current	3		Protective conductor terminal					
15. Precautions for KC mark												
용자안내	문											
	기종별				사용자안내문							
							르서 판매자 또는 사용자는 이 점을 사용하는 것을 목적으로 합니다.					
Precautionary note written in Korean / Distributors and users must understand that this product meets the electromagnetic compatibility requirements and is designed for industrial use (Class A). Do not use the product in a residential area. Applicant for KC mark : MITSUBISHI ELECTRIC AUTOMATION KOREA CO.,LTD Manufacturer : MITSUBISHI ELECTRIC CORPORATION Note 1: This is the notification for the KC mark (Korea Certification)												
6. Service Network												
	ICE: TOKYO BU	ILDING,	2-7-3, M	IARUNOUCHI, CH	HIYOD	A-KU, TOK	ORATION IYO 100-8310, JAPAN					
Please refer to the catalog or user's manual (detailed version) for more information.												

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