



MITSUBISHI ELECTRONIC MULTI-MEASURING INSTRUMENT MODEL ME96SS Version"A"

New Product News

April 2016

External Appearance

No.M012

Product Outline

Upgraded version of ME96SS Series of electronic multi-measuring instrument will be launched. New ME96SS Series (Version A) are improved measurement function and network support. It allows more effective and energy-saving monitoring systems with upgraded items.

Key Items

- Improved measurement accuracy of economy model to support active energy class 0.5S.
- Line-up MODBUS[®]TCP communication unit and support Ethernet communication.
- Line-up logging unit for data backup.

Launch Date April 2016

Special I Feature I

Measuring function improvement

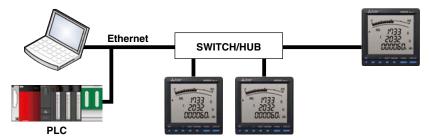
Improved measurement accuracy of active energy, reactive energy and power factor. And also expanded measurement range of harmonic, demand and others.

		Economy model		Standard model		High-spec model		
		Before improvement	After improvement	Before improvement	After improvement	Before improvement	After improvement	
Model		ME96SSE-MB	ME96SSEA-MB	ME96SSR-MB	ME96SSRA-MB	ME96SSH-MB	ME96SSHA-MB	
Measurement items and accuracy	Active energy	Class1	Class0.5S	Class1	Class0.5S	Class0.5S	Class0.5S	
	Reactive energy	-	-	Class2	Class1S	Class2	Class1S	
	Power factor	±2.0%	±0.5%	±2.0%	±0.5%	±1.0%	±0.2%	
	Harmonic	-	±2.0% THD	±2.0% (Up to 13th)	±1.0% (Up to 19th)	±2.0% (Up to 31st)	±1.0% (Up to 31st)	
	Demand	-	A (thermal)	A (thermal)	A (thermal), W. var. VA (rolling)	A (thermal), W (rolling)	A (thermal), W. var. VA (rolling)	

Special II Feature

MODBUS®TCP communication support (optional plug-in module: ME-0000MT-SS96)

 Line-up MODBUS®TCP communication unit that can be used in Ethernet environment in addition to the current MODBUS®RTU (RS-485) communication and CC-Link communication units.





Data logging support (optional plug-in module: ME-0000BU-SS96)

Line-up the option unit that can hold the data during a communication impossible period.



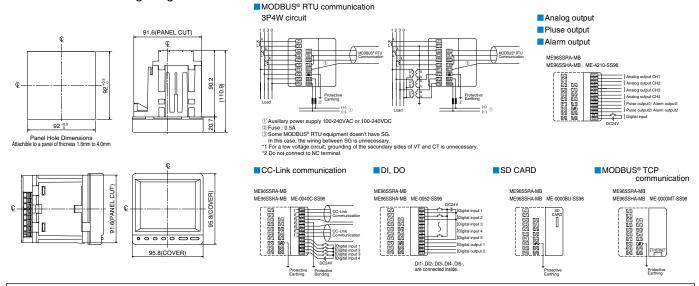
^{*1} Make sure to use the SD memory card manufactured by Mitsubishi Electric Corporation (Model EMU4-SD2GB). Using the other types of the SD memory card may cause the trouble such as data destruction of the memory card or system failure

Specifications

Туре		ME96SSHA-MB, ME96SSRA-MB, ME96SSEA-MB							
Phase wire system		3-PHASE 4-WIRE, 3-PHASE 3-WIRE (3CT, 2CT) 1-PHASE 3-WIRE, 1-PHASE 2-WIRE (common)							
	Current	ACSA, AC1A (common)							
Rating Voltage Frequency		3-PHASE 4-WIRE: max AC277/480V 3-PHASE 3-WIRE: (DELTA) max AC220V, (STAR) max AC440V 1-PHASE 3-WIRE: max AC220/440V 1-PHASE 2-WIRE: (DELTA) max AC220V, (STAR) max AC440V							
		50-60Hz (common)							
Item		Measurement Item	ME96SSHA-MB	ME96SSRA-MB	ME96SSEA-MB				
Current ((A)	A1, A2, A3, AN, Aavg		±0.2%	±0.5%				
Current I	Demand (DA)	DA1, DA2, DA3, DAN, DAavg	±0.1%						
Voltage (V)	V12, V23, V31, Vavg (L-L), V1N, V2N, V3N, Vavg (L-N)							
Active Po	ower (W)	W1, W2, W3, ΣW		±0.5%	±0.5%				
Reactive	Power (var)	var1, var2, var3, Σvar	±0.2%		-				
ω Apparen	t Power (VA)	VA1, VA2, VA3, ΣVA			-				
Power Fa	actor (PF)	PF1, PF2, PF3, ΣPF	±0.2%	±0.5%	±0.5%				
Frequen	cy (Hz)	Hz	±0.1%	±0.1%	±0.2%				
Active Er	nergy (Wh)	Imported, Exported	class0.5S (IEC62053-22)	class0.5S (IEC62053-22)	class0.5S (IEC62053-22)				
Reactive	Energy (varh)	Imported Lag, Imported Lead, Exported Lag, Exported Lead	class1S (IEC62053-24)	class1S (IEC62053-24)	-				
Apparen	t Energy (VAh)	Imported + Exported	±2.0%	±2.0%	-				
Active Er Reactive Apparent	c current (HI)	Only odd number	±1.0% (1 to 31st)	±1.0% (1 to 19th)	±2.0% (THD only)				
≥ Harmoni	c voltage (HV)	Only odd number	±1.0% (1 to 31st)						
Rolling D	emand (DW)	Rolling Block, Fixing Block	±0.2%	±0.5%	-				
Rolling D	emand (Dvar)	Rolling Block, Fixing Block	±1.0%	±1.0%	-				
Rolling D	emand (DVA)	Rolling Block, Fixing Block	±1.0%	±1.0%	-				
Periodic	Active Energy (Wh)	Periodic Active Energy 1, Periodic Active Energy 2	class0.5S (IEC62053-22)	class0.5S (IEC62053-22)	-				
Operatio	n time (h)	Operation time 1, Operation time 2	(Reference)	(Reference)	(Reference)				
Communication Specification		MODBUS*RTU communication							
	ME-4210-SS96	4-Analog output, 2-Pulse output, 1-Digital input							
Accessible opt		CC-Link communication, 4-Digital input							
olug-in module only ME96SSH		5-Digital input, 2-Digital output							
ME96SSRA-ME		SD CARD							
	ME-0000MT-SS	MODBUS®TCP communication							
Auxiliary power		AC100-240V (±15%), DC100-240V (-30% +15%)							
Weight		0.5kg							
Dimension		96 (H) × 96 (W) × 90 (D)							
Attachment Method		Embedding attachment							
Operating temperature/humidity		-5 to +55°C (average temperature: 35°C or less per day), 0 to 85	-5 to +55°C (average temperature: 35°C or less per day), 0 to 85%RH, non condensing						
Storage temperature/humidity		-25 to +75°C (average temperature: 35°C or less per day), 0 to 85%RH, non condensing							
Optional part (For ME-0000BU-SS96)	SD memory card (EMU4-SD2GB)*1							

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Dimensions & Wiring Diagrams



For Safety: Please read the instruction manual carefully before using the products in this catalog.

Wiring and connection must be done by the person have a specialized knowledge of electric construction and wiring.



for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

MITSUBISHI ELECTRIC CORPORATION

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