

**MITSUBISHI Energy Measuring Devices**  
**Multi-measuring Instrument**  
**SALES & SERVICES**

**NO. YAMA363**

**TYPEs : ME96SS series**

Discontinued guidance of ELECTRONIC MULTI-MEASURING INSTRUMENT






We would like to inform that we will cease production of Electronic Multi-measuring instruments ME96SS Series.

**1. Types**

ME96SSHA-MB, ME96SSRA-MB, ME96SSEA-MB

**2. Discontinued and replacement model**

**Basic device**

	Discontinued model	Replacement model
Series	ME96SS Ver.A series	ME96SS Ver.B series
Model	ME96SSHA-MB (High-performance model) ME96SSRA-MB (Standard model) ME96SSEA-MB (Economy model)	ME96SSHB-MB (High-performance model) ME96SSRB-MB (Standard model) ME96SSEB-MB (Economy model)
Appearance		
	Front view	Front view
		 
	Side view common to all models	Side view of model ME96SSEB-MB Side view of model ME96SSRB-MB and ME96SSHB-MB

**3. Time of discontinued**

Time to stop receiving orders : December, 2020  
Production stop : January, 2021

**4. Reason for change**

We will discontinue production of the old model due to the new model release.

## 5. Comparative table of High-performance model

Type		ME96SSHA-MB	ME96SSHB-MB		
Dimension		96 (H) × 96 (W) × 90 (D)	same		
Terminal		M3 screw	same		
Phase wire system		3-PHASE 4-WIRE, 3-PHASE 3-WIRE(3CT, 2CT), 1-PHASE 3-WIRE, 1-PHASE 2-WIRE (common use)	same		
Rating	Current	5 A AC, 1 A AC (common use)	same		
	Voltage	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	same		
	Frequency	50 Hz or 60 Hz (common use)	same		
Item		Measurement Item	Accuracy	Measurement Item	Accuracy
Measurement elements	Current (A)	A1, A2, A3, AN, A <sub>AVG</sub>	±0.1%	same	
	Current Demand (DA)	DA1, DA2, DA3, DAN, DA <sub>AVG</sub>			
	Voltage (V)	V12, V23, V31, V <sub>AVG</sub> (L-L), V1N, V2N, V3N, V <sub>AVG</sub> (L-N)			
	Active Power (W)	W1, W2, W3, ΣW	±0.2%	same	
	Reactive Power (var)	var1, var2, var3, Σvar			
	Apparent Power (VA)	VA1, VA2, VA3, ΣVA			
	Power Factor (PF)	PF1, PF2, PF3, ΣPF	±0.2%	same	
	Frequency (Hz)	Hz	±0.1%	same	
	Active Energy (Wh)	Imported, Exported	class0.5S	same	
	Reactive Energy (varh)	Imported Lag, Imported Lead, Exported Lag, Exported Lead	class1S	same	
	Apparent Energy (VAh)	Imported + Exported	±2.0%	same	
	Harmonic current (HI)	1 to 31th (Only odd number)	±1.0%	same	
	Harmonic voltage (HV)	1 to 31th (Only odd number)			
	Rolling Demand(DW)	Rolling Block, Fixing Block	±0.2%	same	
	Rolling Demand(Dvar)	Rolling Block, Fixing Block	±1.0%	same	
	Rolling Demand(DVA)	Rolling Block, Fixing Block	±1.0%	same	
	Periodic Active Energy (Wh)	Periodic Active Energy 1, Periodic Active Energy 2	class0.5S	Periodic Active Energy 1, Periodic Active Energy 2, Periodic Active Energy 3	class0.5S
	Operation time (h)	Operation time 1, Operation time 2	(Reference)	same	
	Current Unbalance Rate (Aunb)	-		○	(Reference)
	Voltage Unbalance Rate (Vunb)	-		○	(Reference)
CO2 Equivalent	-		○	(Reference)	
LCD viewing-angle	Upper 10° Lower 60° Left 60° Right 60°		Upper 60° Lower 60° Left 60° Right 60°		
Display updating time interval	0.5 s, 1 s		same		
Communication Specification	MODBUS®RTU communication		same		
Built-in logging function (Measurement data, Min/max log , Alarm log and System log)	-		○		
Accessible option unit (*1)	ME-4210-SS96 ME-0040C-SS96 ME-0052-SS96 ME-0000BU-SS96 ME-0000MT-SS96		ME-4210-SS96B ME-0040C-SS96 ME-0052-SS96 ME-0000BU-SS96 ME-0000MT-SS96		
VA Consumption	VT	0.1 VA / phase (at 110 V AC), 0.2 VA / phase (at 220 V AC), 0.4 VA / phase (at 440 VAC)	same		
	CT	0.1VA / phase	same		
	Auxiliary power	7 VA (at 110 V AC), 8 VA (at 220 V AC), 5 W (at 100 V DC)	13 VA (at 110 V AC), 14 VA (at 220 V AC), 9 W (at 100 V DC)		
Auxiliary power	100 to 240 V AC (±15%), 100 to 240 V DC (-30% +15%)	same			
Weight	0.5 kg	same			
Attachment Method	Embedded type	same			
Operating temperature/humidity	-5°C to +55°C (Daily average temperature: 35°C or less), 0 to 85% RH, non-condensing	same			
Storage temperature/ humidity	-2°C to +75°C (Daily average temperature: 35°C or less), 0 to 85% RH, non-condensing	same			

\*1 See SALES & SERVICES (YAMA359) for ME-4210-SS96 option unit.

## 6. Comparative table of standard model

Type		ME96SSRA-MB	ME96SSRB-MB		
Dimension		96 (H) × 96 (W) × 90 (D)	same		
Terminal		M3 screw	same		
Phase wire system		3-PHASE 4-WIRE, 3-PHASE 3-WIRE(3CT, 2CT), 1-PHASE 3-WIRE, 1-PHASE 2-WIRE (common use)	same		
Rating	Current	5 A AC, 1 A AC (common use)	same		
	Voltage	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	same		
	Frequency	50 Hz or 60 Hz (common use)	same		
Item		Measurement Item	Accuracy	Measurement Item	Accuracy
Measurement elements	Current (A)	A1, A2, A3, AN, A <sub>AVG</sub>	±0.2%	same	
	Current Demand (DA)	DA1, DA2, DA3, DAN, DA <sub>AVG</sub>			
	Voltage (V)	V12, V23, V31, V <sub>AVG</sub> (L-L), V1N, V2N, V3N, V <sub>AVG</sub> (L-N)	±0.5%	same	
	Active Power (W)	W1, W2, W3, ΣW			
	Reactive Power (var)	var1, var2, var3, Σvar			
	Apparent Power (VA)	VA1, VA2, VA3, ΣVA	±0.5%	same	
	Power Factor (PF)	PF1, PF2, PF3, ΣPF			
	Frequency (Hz)	Hz	±0.1%	same	
	Active Energy (Wh)	Imported, Exported	class0.5S	same	
	Reactive Energy (varh)	Imported Lag, Imported Lead, Exported Lag, Exported Lead	class1S	same	
	Apparent Energy (VAh)	Imported + Exported	±2.0%	same	
	Harmonic current (HI)	1 to 19th (Only odd number)	±1.0%	same	
	Harmonic voltage (HV)	1 to 19th (Only odd number)			
	Rolling Demand(DW)	Rolling Block, Fixing Block	±0.5%	same	
	Rolling Demand(Dvar)	Rolling Block, Fixing Block	±1.0%	same	
	Rolling Demand(DVA)	Rolling Block, Fixing Block	±1.0%	same	
	Periodic Active Energy (Wh)	Periodic Active Energy 1, Periodic Active Energy 2	class0.5S	Periodic Active Energy 1, Periodic Active Energy 2, Periodic Active Energy 3	class0.5S
	Operation time (h)	Operation time 1, Operation time 2	(Reference)	same	
	Current Unbalance Rate (Aunb)	-		○	(Reference)
	Voltage Unbalance Rate (Vunb)	-		○	(Reference)
CO2 Equivalent	-		○	(Reference)	
LCD viewing-angle	Upper 10° Lower 60° Left 60° Right 60°	Upper 60° Lower 60° Left 60° Right 60°			
Display updating time interval	0.5 s, 1 s	same			
Communication Specification	MODBUS <sup>®</sup> RTU communication	same			
Accessible option unit (*1)	ME-4210-SS96 ME-0040C-SS96 ME-0052-SS96 ME-0000BU-SS96 ME-0000MT-SS96	ME-4210-SS96B ME-0040C-SS96 ME-0052-SS96 ME-0000BU-SS96 ME-0000MT-SS96			
VA Consumption	VT	0.1 VA / phase (at 110 V AC), 0.2 VA / phase (at 220 V AC), 0.4 VA / phase (at 440 VAC)	same		
	CT	0.1VA / phase	same		
	Auxiliary power	7 VA (at 110 V AC), 8 VA (at 220 V AC), 5 W (at 100 V DC)	13 VA (at 110 V AC), 14 VA (at 220 V AC), 9 W (at 100 V DC)		
Auxiliary power	100 to 240 V AC (±15%), 100 to 240 V DC (-30% +15%)	same			
Weight	0.5 kg	same			
Attachment Method	Embedded type	same			
Operating temperature/humidity	-5°C to +55°C (Daily average temperature: 35°C or less), 0 to 85% RH, non-condensing	same			
Storage temperature/ humidity	-2°C to +75°C (Daily average temperature: 35°C or less),0 to 85% RH, non-condensing	same			

\*1 See SALES & SERVICES (YAMA359) for ME-4210-SS96 option unit.

## 7. Comparative table of economy model

Type		ME96SSEA-MB	ME96SSEB-MB		
Dimension		96 (H) × 96 (W) × 90 (D)	96 (H) × 96 (W) × 36 (D)		
Terminal		M3 screw	same		
Phase wire system		3-PHASE 4-WIRE, 3-PHASE 3-WIRE(3CT, 2CT), 1-PHASE 3-WIRE, 1-PHASE 2-WIRE (common use)	same		
Rating	Current	5 A AC, 1 A AC (common use)	same		
	Voltage	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	same		
	Frequency	50 Hz or 60 Hz (common use)	same		
Item		Measurement Item	Accuracy	Measurement Item	Accuracy
Measurement elements	Current (A)	A1, A2, A3, AN, A <sub>AVG</sub>	±0.5%	same	
	Current Demand (DA)	DA1, DA2, DA3, DAN, DA <sub>AVG</sub>	±0.5%	same	
	Voltage (V)	V12, V23, V31, V <sub>AVG</sub> (L-L), V1N, V2N, V3N, V <sub>AVG</sub> (L-N)	±0.5%	same	
	Active Power (W)	W1, W2, W3, ΣW	±0.5%	same	
	Reactive Power (var)	-		var1, var2, var3, Σvar	±0.5%
	Apparent Power (VA)	-		VA1, VA2, VA3, ΣVA	±0.5%
	Power Factor (PF)	PF1, PF2, PF3, ΣPF	±0.5%	same	
	Frequency (Hz)	Hz	±0.2%	Hz	±0.2%
	Active Energy (Wh)	Imported	class0.5S	Imported, Exported	class0.5S
	Reactive Energy (varh)	-		Imported Lag, Imported Lead, Exported Lag, Exported Lead	class1S
	Apparent Energy (VAh)	-		Imported + Exported	±2.0%
	Harmonic current (HI)	total	±2.0%	same	
	Harmonic voltage (HV)	total	±2.0%	same	
	Operation time (h)	Operation time 1, Operation time 2	(Reference)	same	
LCD viewing-angle		Upper 10° Lower 60° Left 60° Right 60°	same		
Display updating time interval		0.5 s, 1 s	same		
Communication Specification		MODBUS RTU communication	same		
Accessible option unit		-	same		
VA Consumption	VT	0.1 VA / phase (at 110 V AC), 0.2 VA / phase (at 220 V AC), 0.4 VA / phase (at 440 VAC)	same		
	CT	0.1 VA / phase	same		
	Auxiliary power	7 VA (at 110 V AC), 8 VA (at 220 V AC), 5 W (at 100 V DC)		4 VA (at 110 V AC), 5 VA (at 220 V AC), 3 W (at 100 V DC)	
Auxiliary power		100 to 240 V AC (±15%), 100 to 240 V DC (-30% +15%)	same		
Weight		0.5 kg	0.5 kg		
Attachment Method		Embedded type	same		
Operating temperature/humidity		-5°C to +55°C (Daily average temperature: 35°C or less), 0 to 85% RH, non-condensing	same		
Storage temperature/ humidity		-2°C to +75°C (Daily average temperature: 35°C or less), 0 to 85% RH, non-condensing	same		