

ΗΛΠΥΟΙΠΣ ηυX

INSTRUCTION MANUAL

100

■ Safety information

 DANGER	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury
 WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury
 CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in minor injury or properties damage

CAUTION

The contents of this manual may be changed without prior notification. Please make sure the product matches the specifications you ordered. Do not use this product if there is no damage or abnormality of the product during delivery. Make sure you use this product at any place with corrosive

For the continuous and safe use of this product, the periodical maintenance is recommended.

- Some parts of this product have limited life span, and others may change over time.
- The warranty period for this product including parts is one year if this product is properly used.

Use this product in accordance with the instructions in the manual. This equipment is a pool motor product used in

Model	Code				Description
LM	☐	☐	☐	☐	LCD Multi Panelmeter
Appearance	1				48(W) X 24(H) mm
	3				96(W) X 48(H) mm
	6				72(W) X 36(H) mm
Displayable Digit	4				4 Digit indication
Input Specification	DV				DC voltage
	DA				DC current
	AV				AC voltage
	AA				AC current
Output specifications		N			Indicator only
		R			1-stage contact output (LM1/6-RC/RT models have fixed L output at contact 1)
		2R			2-stage contact output *only for LM1 (No option output)
		3R			3-stage contact output
		3N			3-stage NPN open collector output
		3P			3-stage PNP open collector output
Optional output		-			No option output
		C			RS-485 output (MODBUS-RTU)
		T			Transmission output (4 ~ 20 mA $\overline{\text{mA}}$)
Power supply voltage			A		100 ~ 240 V ~ 50/60 Hz

	LMI3/6/DV	LMI1/3/6-DA	LMI3/6/V-A	LMI1/3/6-AA			
Model	-LM3 : 96(W) X 48(H) X 68(D) mm	-LM6 : 72(W) X 36(H) X 81(D) mm	-LM1 : 48(W) X 24(H) X 89(D) mm				
Power Supply Voltage	100 ~ 240 V √50/60 Hz (Voltage fluctuation rate: ± 10%)						
power consumption	LM1	- N : Max. 4 VA - 2R : Max. 5 VA - 3N/3P : Max. 4 VA - RC : Max. 5 VA - RT : Max. 6 VA					
	LM3	- N : Max. 6 VA - 3R/3RC : Max. 10 VA - 3RT : Max. 11 VA - 3NC/3PC : Max. 9 VA - 3NT/3PT : Max. 10 VA					
	LM6	- N : Max. 5 VA - 3R : Max. 7 VA - 3N/3P : Max. 5 VA - RC : Max. 6 VA - RT : Max. 7 VA					
Input signal	DC voltage DC current AC voltage / frequency AC current / frequency						
	LM1	50 V / 10 V 5 V / 1 V 200 mV / 50 mV	500 mA / 200 mA 50 mA / 4 - 20 mA 5 mA / 2 mA	250 V / 110 V 50 V / 20 V 5 V / 2 V			
				5 A / 2 A 500 mA / 200 mA 50 mA / 20 mA			
	LM3	500 V / 100 V 50 V / 10 V	5 A / 2 A 500 mA / 200 mA	500 V / 250 V 110 V / 50 V			
				5 A / 2 A 500 mA / 200 mA			
	LM6	5 V / 1 V 200 mV / 50 mV	50 mA / 4 - 20 mA 5 mA / 2 mA	20 V / 10 V 2 V / 1 V			
AC measurement method		AVG / RMS selective measurement					
Input sampling cycle		50 ms					
Input sampling method		OVER sampling method using continuous approximation A / D converter					
Maximum allowable input		F.S. of each input range 110 %					
Frequency measurement range		0.2 ~ 9999 Hz (Frequency measurement range depends on the decimal point position)					
Display		- Negative-LCD - 4 digit 2 rows PV (White) - SV (Green)					
Character size		-LM3 : 17.6 X 10.6 mm -LM6 : 11.5 X 7.0 mm -LM1 : 10.2 X 4.0 mm					
Maximum display		- 9999 ~ 9999					
Display degree		[-23 °C ± 5 °C] - F.S. ± 0.1 % rdg ± 2 digit [-23 °C ± 5 °C] - F.S. ± 0.3 % rdg ± 3 digit					
		[-23 °C ± 5 °C, 5 A] - F.S. ± 0.3 % rdg ± 3 digit [-23 °C ± 5 °C, frequency] - F.S. ± 0.1 % rdg ± 2 digit					
		[-50 °C ~ -10 °C] - F.S. ± 0.5 % rdg ± 3 digit [-50 °C ~ -10 °C] - F.S. ± 0.5 % rdg ± 3 digit					
Control output		· Contact output : 2 stage and 3 stage, SPST (1a), 250 V ~ 5 A					
		· Solid state output : 3 stage, NPN or PNP open collector, 12 - 24 V ≡ 50mA or less					
Relay life	LM1	· Electrical (about 50,000 times, 250 V ~ 5 A) · Mechanical (about 20 million times)					
	LM3, LM6	· Electrical (about 100,000 times, 250 V ~ 5 A) · Mechanical (about 5 million times)					
Optional output	External input						
	· HOLD/ZERO Optional input · Non-voltage input · Short circuit impedance : 300 Ω or less						
	· Residual voltage : 1 V or less · Impedance when open : 100 kΩ or more						
Communication	4 - 20 mA output						
	· Resolution : 10,000 sections · Response speed : 1450 ms or less · Load resistance : 600 Ω or less						
Insulation Resistance	Communication						
	· Communication protocol : Modbus-RTU · Communication method : RS-485 (-2-wire half duplex)						
	· Communication speed : 2400 / 4800 / 9600 / 19200 / 38400 bps						
Withstand voltage		100 MΩ or more (500 V ≡ Mega standard, between conductive terminal and case)					
Noise		2000 V ~ 60 Hz 1 minute (between conductive terminal and case)					
Vibration resistance		± 2 kV(Between operation power terminals, Pulse width = 1 μs, Square wave noise by noise simulator)					
Certification		10 ~ 55 Hz, Single amplitude 0.5 mm, 3-axis angular, 2 hours					
		LM1 : CE	LM3 / LM6 : CE				
Protection structure		· IP66 (front) · Terminal block protection cover applied					
Ambient temperature and humidity		~ 10 ~ 50 °C, 35 ~ 85 % R.H.					
Storage temperature		~ 20 ~ 65 °C					

Technical drawings of the LM series digital scale showing front, top, and panel cutout views with dimensions.

	1 PV Display 2 SV Display	Operation mode: Measured value / maximum value / minimum value Display Function mode: Parameter display Operation mode: Display of Input Range Set in Function Mode Function mode: Parameter setting value display Setting mode: Upper / lower limit comparison value display (Only for output model)
• LM6	3 LOW output lamp 4 GO output lamp 5 HIGH output lamp 6 MAX lamp 7 MIN lamp	Lights up when the lower limit output is operating ※ For LM1/6-RC/RT models, lights up when the OUT output is operated. Lights up during GO output operation Lights up during high limit output operation Lights up when the PV display is in the maximum value display mode Lights up when the PV display is in the minimum value display mode
	8 HZ lamp 9 A / mA lamp 10 V / mV lamp 11 AC lamp 12 DC lamp 13 H lamp 14 L lamp	Lights up when the PV display is in the frequency measurement mode (Displayed on AV / AA models only) Lights up when PV display is in current measurement mode Lights up when PV display is in voltage measurement mode Lights up when the model is AV / AA model Lights up when the model is DV / DA model Lights up when SV display is in the upper limit comparison value display mode Lights up when SV display is in the lower limit comparison value display mode
• LM1	15 RMS lamp 16 COM lamp 17 CWP lamp 18 LOCK lamp 19 HOLD lamp 20 ZERO lamp 21 H/Z lamp	Lights up in RMS measurement mode (AV / AA models only) Lights up when model is communication model Lights up when communication write prohibition is set Lights up when locked Lights up when external HOLD signal is applied Lights up when external ZERO signal is applied Lights up when external HOLD or ZERO signal is applied

LM1 - 4DV - N

1 2 3 4 COM 5 6 7
 50 mV ~ 200 mV ~ 200 mV ~ 2 V ~
 10 V ~ 10 V ~ 10 V ~ 10 V ~
 Δ POWER

LM1 - 4AV - N

1 2 3 4 COM 5 6 7
 200 V ~ 30 V ~ 3 V ~ 2 V ~
 100 V ~ 20 V ~ 2 V ~ 2 V ~
 Δ POWER

LM1 - 4DA - N

1 2 3 4 COM 5 6 7
 500 mA ~ 50 mA ~ 5 mA ~ 2 mA ~
 100 mA ~ 20 mA ~ 2 mA ~ 2 mA ~
 Δ POWER

LM1 - 4AA - N

1 2 3 4 COM 5 6 7
 5 A ~ 100 mA ~ 50 mA ~ 3 mA ~
 2 A ~ 100 mA ~ 4-20 mA ~ 2 mA ~
 Δ POWER

LM6 - 4V - N

1 2 3 4 COM 5 6 7
 500 V ~ 10 V ~ 20 V ~ 2 V ~
 1250 V ~ 500 V ~ 100 V ~ 10 V ~
 Δ POWER

LM6 - 4AA - N

1 2 3 4 COM 5 6 7
 5 A ~ 500 mA ~ 50 mA ~ 2 mA ~
 2 A ~ 200 mA ~ 20 mA ~ 2 mA ~
 Δ POWER

LM6 - 4DV - N

1 2 3 4 COM 5 6 7
 500 V ~ 50 V ~ 5 V ~ 200 mV ~
 100 V ~ 10 V ~ 1 V ~ 50 mV ~
 Δ POWER

LM6 - 4DA - N

1 2 3 4 COM 5 6 7
 5 A ~ 100 mA ~ 50 mA ~ 3 mA ~
 2 A ~ 200 mA ~ 4-20 mA ~ 2 mA ~
 Δ POWER

LM1 - 4AV / 4AA / 4DV / 4DA - 2R (2 - stage contact output) 250V ~ 5A Resistive Load	LM6 - 4AV / 4AA / 4DV / 4DA - 3R (3 - stage contact output) 250V ~ 5A Resistive Load
LM1 - 4AV / 4AA / 4DV / 4DA - 3N (3 - stage NPN output) 12~24V $\overline{\text{DC}}$ 50 mA max.	LM6 - 4AV / 4AA / 4DV / 4DA - 3N (3 - stage NPN output) 12~24V $\overline{\text{DC}}$ 50 mA Max.
LM1 - 4AV / 4AA / 4DV / 4DA - 3P (3-stage PNP output) 12~24V $\overline{\text{DC}}$ 50 mA max.	LM6 - 4AV / 4AA / 4DV / 4DA - 3P (3-stage PNP output) 12~24V $\overline{\text{DC}}$ 50 mA Max.
LM1 - 4AV / 4AA / 4DV / 4DA - RC (1 - stage contact output + RS485 output) RS485 250V ~ 5A Resistive Load ※ OUT output is an 'L' output	LM6 - 4AV / 4AA / 4DV / 4DA - RC (1 - stage contact output + RS485 output) RS485 250V ~ 5A Resistive Load ※ OUT output is an 'L' output
LM1 - 4AV / 4AA / 4DV / 4DA - RT (1 - stage contact output + 4 - 20 mA $\overline{\text{DC}}$) 4~20 mA $\overline{\text{DC}}$ 250V ~ 5A Resistive Load ※ OUT output is an 'L' output	LM6 - 4AV / 4AA / 4DV / 4DA - RT (1 - stage contact output + 4 - 20 mA $\overline{\text{DC}}$) 4~20 mA $\overline{\text{DC}}$ 250V ~ 5A Resistive Load ※ OUT output is an 'L' output

The diagrams show the terminal connections for four different meter models:

- LM3-4AV-N:** Terminal 1 is connected to 50V or 250V AC. Terminal 2 is connected to 10V or 50V AC. Terminal 3 is connected to 20V or 10V AC. Terminal 4 is connected to 2V or 1V AC. Terminal 5 is COM. Terminal 6 is HOLD/ZERO. Terminal 7 is unconnected. Terminal 8 is unconnected. Terminal 9 is connected to POWER. Terminal 10 is connected to POWER.
- LM3-4DV-N:** Terminal 1 is connected to 50V or 100V AC. Terminal 2 is connected to 50V or 10V AC. Terminal 3 is connected to 100mV or 1V AC. Terminal 4 is connected to 50mV or 50μV AC. Terminal 5 is COM. Terminal 6 is HOLD/ZERO. Terminal 7 is unconnected. Terminal 8 is unconnected. Terminal 9 is connected to POWER. Terminal 10 is connected to POWER.
- LM3-4AA-N:** Terminal 1 is connected to 5A or 500mA AC. Terminal 2 is connected to 500mA or 250mA AC. Terminal 3 is connected to 50mA or 25mA AC. Terminal 4 is COM. Terminal 5 is unconnected. Terminal 6 is HOLD/ZERO. Terminal 7 is unconnected. Terminal 8 is unconnected. Terminal 9 is connected to POWER. Terminal 10 is connected to POWER.
- LM3-4DA-N:** Terminal 1 is connected to 5A or 2A AC. Terminal 2 is connected to 500mA or 200mA AC. Terminal 3 is connected to 20mA or 4-20mA AC. Terminal 4 is connected to 5mA or 4-20mA AC. Terminal 5 is COM. Terminal 6 is HOLD/ZERO. Terminal 7 is unconnected. Terminal 8 is unconnected. Terminal 9 is connected to POWER. Terminal 10 is connected to POWER.

LM3 - 4AV / 4AA / 4DV / 4DA - 3RC (3 - stage contact output) CONTACT OUT: 250 V~ 5 A Resistive Load	LM3 - 4AV / 4AA / 4DV / 4DA - 3NC (3 - stage NPN output + RS-485 output) 12-24V max. 50 mA max.
LM3 - 4AV / 4AA / 4DV / 4DA - 3RC (3 - stage contact output + RS-485 output) CONTACT OUT: 250 V~ 5 A Resistive Load	LM3 - 4AV / 4AA / 4DV / 4DA - 3NT (3 - stage NPN output + 4 - 20 mA $\overline{\text{m}}$) 12-24V max. 50 mA max.
LM3 - 4AV / 4AA / 4DV / 4DA - 3RT (3 - stage contact output + 4 - 20 mA $\overline{\text{m}}$) CONTACT OUT: 250 V~ 5 A Resistive Load	LM3 - 4AV / 4AA / 4DV / 4DA - 3PC (3 - stage PNP output + RS-485 output) 12-24V max. 50 mA max.
~ : Alternating Current (AC) $\overline{\text{m}}$: Direct Current (DC) : Caution : Waste Electrical and Electronic Equipment : Equipment protected throughout by DOUBLE INSULATION or REINFORCED INSULATION	LM3 - 4AV / 4AA / 4DV / 4DA - 3PT (3 - stage PNP output + 4 - 20 mA $\overline{\text{m}}$) 12-24V max. 50 mA max.

Mode	Graph	Mode	Graph	Mode	Graph
LO		LH		HH	
HI		LL		LD	

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graph TD
    OM{Operation mode} --> S3_1[3 seconds or more]
    S3_1 --> FM[Function mode]
    S3_2[3 seconds or more] --> FM
    FM --> PFUN[P.FUN]
    PFUN --> FUNC[FUNC]
    PFUN --> PEXP[P.EXP]
    PFUN --> POUT[P.OUT]
    PFUN --> POPT[P.OPT]
    POPT --> PFUN
    
    FUNC --> NOR[NOR]
    FUNC --> SCALE[SCALE]
    FUNC --> FREQ[FREQ]
    
    NOR --> RANGE1[RANGE]
    RANGE1 --> DOT1[DOT]
    DOT1 --> SC_H[SC-H]
    SC_H --> SC_L[SC-L]
    SC_L --> SPAN1[SPAN]
    SPAN1 --> ZERO1[ZERO]
    ZERO1 --> FACT[FACT]
    
    SCALE --> RANGE2[RANGE]
    RANGE2 --> DOT2[DOT]
    DOT2 --> SC_H2[SC-H]
    SC_H2 --> SC_L2[SC-L]
    SC_L2 --> SPAN2[SPAN]
    SPAN2 --> ZERO2[ZERO]
    ZERO2 --> FACT
    
    FREQ --> RANGE3[RANGE]
    RANGE3 --> DOT3[DOT]
    DOT3 --> SC_H3[SC-H]
    SC_H3 --> SC_L3[SC-L]
    SC_L3 --> SPAN3[SPAN]
    SPAN3 --> ZERO3[ZERO]
    ZERO3 --> FACT
    
    PEXP --> ACTY[AC.TY]
    PEXP --> DREF[D.REF]
    PEXP --> DTMR[D.TMR]
    PEXP --> EXIN[EX.IN]
    PEXP --> KZO[K-ZO]
    PEXP --> DRNG[D.RNG]
    PEXP --> UNIT[UNIT]
    PEXP --> LOCK[LOCK]
    PEXP --> FINI[F.INI]
    
    POUT --> OMD[O-MD]
    POUT --> STMR[S.TMR]
    POUT --> HYS[HYS]
    
    POPT --> PVSH[PV.SH]
    POPT --> PVSL[PV.SL]
    POPT --> SNO[S-NO]
    POPT --> BPS[BPS]
    POPT --> PTY[PTY]
    POPT --> RWT[RWT]
    POPT --> CWP[CWP]
  
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- * FREQ is displayed only on AC models (when FREQ is selected, AC.TY / EX.IN / K-Z0 is not displayed)
- * AC.TY is displayed on AC models only (AVG / RMS selected)
- * P.OUT is displayed only on the output model . (if 0-MD is OFF, S.TMR / HYS is not displayed)
- * P.OPT is displayed only in transmission output and communication output models.
- * PV.SH/PV.SL is displayed only in transmission output model.
- * S-NO / BPS / PTY / RWT / CWP are displayed only in communication output model.

Parameter		Setting range	Initial value
	Measurement mode (FUNC)	- Select measurement mode. (Basic/scale/frequency) - Frequency measurement mode is only displayed on AV/AA models. NOR $\leftrightarrow$ SCAL $\leftrightarrow$ FREQ (NOR $\leftrightarrow$ SCAL $\leftrightarrow$ FREQ)	NOR
	DV	500.0 $\leftrightarrow$ 10.0 $\leftrightarrow$ 50.0 $\leftrightarrow$ 100.0 $\leftrightarrow$ 500.0 $\leftrightarrow$ 1000.0 (500 V $\leftrightarrow$ 100 V $\leftrightarrow$ 50 V $\leftrightarrow$ 10 V $\leftrightarrow$ 5 V $\leftrightarrow$ 1 V $\leftrightarrow$ 0.2 V $\leftrightarrow$ 50 mV)	500 V
	DA	50.0 $\leftrightarrow$ 10.0 $\leftrightarrow$ 5.0 $\leftrightarrow$ 1.0 $\leftrightarrow$ 0.2 $\leftrightarrow$ 50.0 μ (50 V $\leftrightarrow$ 10 V $\leftrightarrow$ 5 V $\leftrightarrow$ 1 V $\leftrightarrow$ 0.2 V $\leftrightarrow$ 50 mV)	50 V
	DA	5A $\leftrightarrow$ 2A $\leftrightarrow$ 0.5A $\leftrightarrow$ 0.2A $\leftrightarrow$ 50mA $\leftrightarrow$ 4 ~ 20mA $\leftrightarrow$ 5mA $\leftrightarrow$ 2mA (5A $\leftrightarrow$ 2A $\leftrightarrow$ 0.5A $\leftrightarrow$ 0.2A $\leftrightarrow$ 50 mA $\leftrightarrow$ 4 ~ 20 mA $\leftrightarrow$ 5 mA $\leftrightarrow$ 2 mA)	5 A
	AV	500.0 $\leftrightarrow$ 250.0 $\leftrightarrow$ 100.0 $\leftrightarrow$ 50.0 $\leftrightarrow$ 20.0 $\leftrightarrow$ 10.0 $\leftrightarrow$ 5.0 $\leftrightarrow$ 2.0 (500 V $\leftrightarrow$ 250 V $\leftrightarrow$ 110 V $\leftrightarrow$ 50 V $\leftrightarrow$ 20 V $\leftrightarrow$ 10 V $\leftrightarrow$ 5 V $\leftrightarrow$ 2 V)	500 V
	AA	250.0 $\leftrightarrow$ 110.0 $\leftrightarrow$ 50.0 $\leftrightarrow$ 20.0 $\leftrightarrow$ 10.0 $\leftrightarrow$ 5.0 $\leftrightarrow$ 2.0 (250 V $\leftrightarrow$ 110 V $\leftrightarrow$ 50 V $\leftrightarrow$ 20 V $\leftrightarrow$ 10 V $\leftrightarrow$ 5 V $\leftrightarrow$ 2 V)	250 V
	AA	5A $\leftrightarrow$ 2A $\leftrightarrow$ 0.5A $\leftrightarrow$ 0.2A $\leftrightarrow$ 50mA $\leftrightarrow$ 0.20mA (5A $\leftrightarrow$ 2A $\leftrightarrow$ 0.5A $\leftrightarrow$ 0.2A $\leftrightarrow$ 50 mA $\leftrightarrow$ 0.20 mA)	5 A
	Decimal point position (DOT)	- In the scale measurement mode, select the decimal point position of the measured value. - In frequency measurement mode, set the measurement range to the decimal point position. - The initial value of the decimal point position in the frequency measurement mode is "000". 0000 $\leftrightarrow$ 0000 $\leftrightarrow$ 0000 $\leftrightarrow$ 0000 (0000 $\leftrightarrow$ 0.000 $\leftrightarrow$ 00.00 $\leftrightarrow$ 000.0 $\leftrightarrow$ 000.0)	DV: AV $\leftrightarrow$ 000.0 DA: AA $\leftrightarrow$ 0.00 0.000
	Freescala upper limit (SC - H)	- Set the upper limit of the prescale for displaying the scale of the measured value. - The decimal point position of the prescale upper limit value changes according to the input range and decimal point position. 9999 $\sim$ 9999 (999.9 $\sim$ 999.9)	- LM3/6 DV: 500.0 / AV: 500.0 DA: 500.0 / AA: 500.0 - LM1 DV: 50.00 / AV: 250.0 DA: 50.00 / AA: 250.0
	Freescala lower limit (SC - L)	- Set the lower limit of the prescale for the scale display of the measured value. - The decimal point position of the prescale lower limit value changes according to the input range and decimal point position. 9999 $\sim$ 9999 (999.9 $\sim$ 999.9)	- LM3/6 DV: 0.0 / AV: 0.0 DA: 0.000 / AA: 0.000 - LM1 DV: 0.00 / AV: 0.0 DA: 0.0 / AA: 0.000
	Magnification correction value (SPAN)	- Set the magnification adjustment value to correct the slope of the measured value. 5.000 $\sim$ 0.100 (5.000 $\sim$ 0.100)	1.000
	Frequency Input index (FACT)	- Set the exponential value for SPAN, which is the magnification correction value of the measurement frequency. 10 $\sim$ 1 $\sim$ 10 (10 ¹ $\sim$ 10 ⁻²)	10 ⁰
	Zero deviation Correction value (ZERO)	- Set the zero - deviation correction value to compensate the offset deviation of the measured value. 99 $\sim$ -99 (99 $\sim$ -99)	0

	Parameter	Setting range	Initial value	
 ACty 	Measurement method (AC.TY)	· Select the AC input measurement method. · AVG (Average value measurement). · RMS (Effective value measurement). · Displayed on AV/AA models only. (※ Not displayed when frequency measurement mode is selected.)	$RUG \leftrightarrow rns$ (AVG $\leftrightarrow$ RMS)	AVG
 drEF 	Display cycle (D.REF)	· Select the display period where the measured value is displayed. $5 \leftrightarrow 2 \leftrightarrow 1 \leftrightarrow 0.5 \leftrightarrow 0.2 \leftrightarrow 0.1$ (5 sec $\leftrightarrow$ 2 sec $\leftrightarrow$ 1 sec $\leftrightarrow$ 0.5 sec $\leftrightarrow$ 0.2 sec $\leftrightarrow$ 0.1 sec)		0.2 sec
 dTMR 	Max/Minimum value detection Delay time (D.TMR)	· Set the detection delay time for the maximum and minimum values of the measured value. · If the detection delay time is '0.5', the maximum and minimum values in the operation mode are not displayed.	$99 \sim 00$ (99 sec $\sim$ 0 sec)	0 sec
 EX.IN 	External input Select (EX.IN)	· When HOLD is selected, the external HOLD input terminal operates with the display value HOLD function. · When ZERO is selected, the external ZERO input terminal operates with the zero adjustment function. · It is not displayed when frequency measurement mode is selected on AV / AA models.	$HOLD \leftrightarrow ZERO$ (HOLD $\leftrightarrow$ ZERO)	HOLD
 K-ZO 	Key-Zero adjustment (K-ZO)	· When "ON" is selected for the key-zero adjustment, the key operates with the zero-adjustment function. · It is not displayed when frequency measurement mode is selected on AV / AA models.	$on \leftrightarrow off$ (ON $\leftrightarrow$ OFF)	OFF
 dRNG 	RANGE display selection (D.RNG)	· When D.RNG is set to 'OFF', the RANGE is not displayed.	$on \leftrightarrow off$ (ON $\leftrightarrow$ OFF)	ON
 UNIT 	UNIT display selection (UNIT)	· It is used when changing the display unit to the user's desired display unit. · When UNIT is set to 'ON', the unit is displayed in the range selected in the input range. · LM3, LM6 $on \leftrightarrow off \leftrightarrow V \leftrightarrow \mu \leftrightarrow m \leftrightarrow A \leftrightarrow Hz$ (ON $\leftrightarrow$ OFF $\leftrightarrow$ V $\leftrightarrow$ mV $\leftrightarrow$ mA $\leftrightarrow$ Hz $\leftrightarrow$ KW $\leftrightarrow$ Hz) · LM1 $on \leftrightarrow off \leftrightarrow V \leftrightarrow \mu \leftrightarrow m \leftrightarrow A \leftrightarrow Hz$ (ON $\leftrightarrow$ OFF $\leftrightarrow$ V $\leftrightarrow$ mV $\leftrightarrow$ mA $\leftrightarrow$ Hz)		ON
 LoCF 	Lock selection (LOCK)	· Select Front Panel Key Lock and Parameter Lock.	$off \leftrightarrow P \leftrightarrow PR \leftrightarrow L \leftrightarrow P \leftrightarrow OUT \leftrightarrow opt$ (OFF $\leftrightarrow$ KEY $\leftrightarrow$ PAR $\leftrightarrow$ K $\leftrightarrow$ P $\leftrightarrow$ OUT $\leftrightarrow$ OPT)	OFF
 F.INI 	Reset (F.INI)	· When F.INI is selected as 'ON', all parameters are reset to the factory defaults.	$on \leftrightarrow off$ (ON $\leftrightarrow$ OFF)	OFF

Output parameter group		Parameter	Setting range	Initial value
 	Output mode Starting compensation time Hysteresis	Output mode (O-MD) Starting compensation time (STMR) Hysteresis (HYS)	- When the measurement mode, input range, and magnification range correction values are changed, O-MD is automatically changed to OFF. OFF ↔ Lo ↔ o-H ↔ o-LH ↔ LLo ↔ HH ↔ o-Ld (OFF ↔ o-Lo ↔ o-Hi ↔ o-LH ↔ o-LL ↔ o-HH ↔ o-LD)	OFF 0.0 sec DV, AV: 000.1 DA, AA: 0.001

	Parameter	Setting range	Initial value
(00) Transmission output upper limit 	Transmission output upper limit (PV.SH)	- Set the upper limit to which the transmission output 20 mA is output. (*Displayed only in the transmission output model.) - The upper limit of the transmission output scale should be set larger than the lower limit. - The decimal point position of the upper limit of the transmission output scale changes; according to the input range and the decimal point position.	LM3/6 DV-5.00 / AV-500.0 DA-5.000 / AA-5.000 LM1 DV-50.0 / AV-250.0 DA-500.0 / AA-250.0
(00) Transmission output lower limit 	Transmission output lower limit (PV.SL)	- Set the lower limit to which the transmission output 4 mA is output. (*Displayed only in transmission output model.) - The lower limit of the transmission output scale should be set lower than the upper limit. - The decimal point position of the lower limit of the transmission output scale changes according to the input range and the decimal point position.	LM3/6 DV-0.0 / AV-0.0 DA-0.000 / AA-0.000 LM1 DV-0.0 / AV-0.0 DA-0.0 / AA-0.000
(00) Communication station number 	Communication station number (S-N0)	- Set communication station number. (*Displayed only in communication output model.)	001
(00) Baud Rate (BPS) 	Baud Rate (BPS)	- Select communication speed. (*Displayed only in communication output model.)	9600
(00) Parity bit (PTY)	Parity bit (PTY)	- Select communication parity bit. (*Displayed only in communication output model.)	NONE
(00) Response waiting time (RWT)	Response waiting time (RWT)	- Set the waiting time for communication response. (*Displayed only in communication output model.)	20 ms
(00) Communication writing prohibited (CWP)	Communication writing prohibited (CWP)	- Select CWP. (*Displayed only in communication output model.) - If the CWP is "ON", the setting value cannot be changed by communication.	ON

오션바이어의 그
PRAR
MSD

스래임 사냥기
PuSH
MSD

전송속력
PuSL
MSD

통신구
S-gn
MSD

통신노드
bPS
MSD

메리터 비트
PLY
MSD

오션바이어가
rye
MSD

통신노드기
cup
MSD

MSD

MSD