

■ Error Display			
Display	Description	Display	Description
HHHH	Flashes when measured input is exceeded the max. allowable input (+110%)	F - HH	Flashes when input frequency is exceeded the max. measured range (10kHz) and display range (9999)
LLLL	Flashes when measured input is exceeded the min. allowable input (minus input α_{ON} : -110%, α_{FF} : -10%)	PF - H	Flashes when power factor display value to measured input is over than LAG 0.50
d - HH	Flashes when display input is exceeded max. display range (9999)	PF - L	Flashes when power factor display value to measured input is less than LEAD -0.50
d - LL	Flashes when display input is exceeded min. display range (-1999)		

※Error is cleared when the input value is within measurement range or display range.

※The above specifications are subject to change and some models may be discontinued without notice.

※Be sure to follow cautions written in the instruction manual and the technical descriptions (catalog, homepage).

■ Power Factor $[PF]$ Display $[PA1 \text{ group: } H-r \text{ } G \text{ } L-r \text{ } G]$

- This function displays LEAD and LAG by analog output signal from the power factor transducer.
- It is available to accept several outputs of the power factor transducer by high-limit $[r \text{ } G]$ flow-limit $[r \text{ } G]$ analog output signal.
- Power factor value is displayed as $\cos\theta$ value (0.50) (LEAD) to 1.00 to 0.50 (LAG).
- LEAD is value when current phase leads voltage phase, LAG is when current phase lags behind voltage phase.
- LEAD and LAG are invalid value.
- Setting range: From min. to max. selected value from measurement input $[r \text{ } n-r]$.
- E.g.) When setting 2000, in $[n \text{ } n-r]$, $H-r \text{ } G$ and $L-r \text{ } G$ are available to set from 1999 to 2000.

Input range setting diagram: The input range is set by the $L-RG$ and $H-RG$ pins. The input range is $(H-RG) - (L-RG)$. The input value is $H-RG$.

Display value graph: The display value is linearly proportional to the input value. The input range is $(H-RG) - (L-RG)$. The display value is 0.50 at the input value $H-RG$ and -0.50 at the input value $L-RG$.

Output value H/L graph: The output value H/L is 0.90 for the input value $H-RG$ and -0.90 for the input value $L-RG$. The output value H/L is 0.00 at the input value $(H-RG) - (L-RG)$. The output value H/L is 0.90 for the input value $H-RG$ and -0.90 for the input value $L-RG$. The output value H/L is 0.00 at the input value $(H-RG) - (L-RG)$.

■ Factory Default						※1: Not displayed for indicator model.					
Type	Parameters	M4NN-DV	M4NN-DA	M4NN-AV	M4NN-AA	Type	Parameters	M4NN-DV	M4NN-DA	M4NN-AV	M4NN-AA
PR1 (PA1 group)	l n r	600.0	5R	600.0	5R	PR0 (PA0 group)	oU tH ^{※1}	600	500	600.0	500.0
	n l n	on	on	—	—		oU tL ^{※1}	-600	-500	000.0	000.0
	dI SP	5tnd	5tnd	5tnd	5tnd		oU 2H ^{※1}	600	500	600.0	500.0
	d o t	0	0	0	0		oU 2L ^{※1}	-600	-500	000.0	000.0
	H r C	600	500	600	5000		HPE t ^{※1}	0	000	0.0	000.0
	L r C	-600	-500	0	0		LPE t ^{※1}	0	000	0.0	000.0
	l n bH	1000	1000	1000	1000	PR2 (PA2 group)	oU tL ^{※1}	oFF	oFF	oFF	oFF
	l n bL	00	00	00	00		oU 2L ^{※1}	oFF	oFF	oFF	oFF
	H r r C	600	500	—	—		HYS t ^{※1}	—	—	—	—
	L r r C	-600	-500	—	—		HYS2 ^{※1}	—	—	—	—
	l n bE	—	—	10.0	10.0		PE t ^{※1}	00.5	00.5	00.5	00.5
							dI St	02.5	02.5	02.5	02.5
							LoL	oFF	oFF	oFF	oFF

■ Major Products

- Photoelectric Sensors
- Fiber Optic Sensors
- Door Sensors
- Door Size Sensors
- Area Sensors
- Proximity Sensors
- Pressure Sensors
- Rotary Encoders
- Connector/Sockets
- Switching Mode Power Supplies
- Control Switches/Lamps/Buzzers
- I/O Terminal Blocks & Cables
- Stepper Motors/Drivers/Motion Controllers
- Graphic/Logic Panels
- Field Network Devices
- Laser Marking System (Fiber, Co., Nd: YAG)
- Laser Warning/Curtain System

- Temperature Controllers
- Temperature/Humidity Transducers
- SSRs/Power Controllers
- Counters
- Timers
- Panel Meters
- Tachometer/Pulse (Rate) Meters
- Display Units
- Sensor Controllers



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