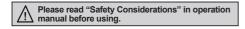
DIN W75×H25mm Digital Graphic Panel Meter For Mosaic Panel

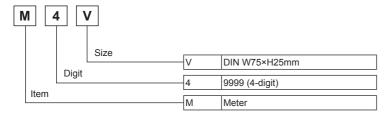
Features

- Various input function
 - : 0-2VDC, 0-10VDC, 1-5VDC, DC0-1mA, DC4-20mA
- High/low-limit display scale function
- Max. display range: -999 to 9999
- Error display function
- High quality by microprocessor built-in
- Display accuracy: F.S. ±0.2% rdg ±1-digit





Ordering Information



Specifications

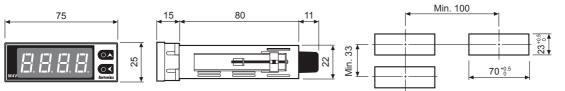
Model	Model M4V						
Measurement function		DC voltage			DC current		
Measurer	ment input	0-2VDC==	1-5VDC==	0-10VDC==	DC0-1mA	DC4-20mA	
Max. allowable input		110% of measurment input					
Power supply		12-24VDC					
Allowable voltage range		90 to 110% of rated voltage					
Power consumption		Max. 2W					
Display method		7-segment LED display (red) (character height: 14mm)					
Display accuracy		0 to 50°C: F.S. ±0.2% rdg ±1-digit -10 to 0°C: F.S. ±0.3% rdg ±1-digit					
Display cycle		500ms					
Setting type		Setting type with the front keys					
Self-diagnosis function		Error display function					
Insulation resistance		Over 100MΩ (at 500VDC megger)					
Dielectric strength		2,000VAC 50/60Hz for 1 min					
Noise immunity		±300V the square wave noise (pulse width: 1µs) by the noise simulator					
Vibration	Mechanical	0.75mm amplitude at frequency of 10 to 50Hz (for 1 min) in each X, Y, Z direction for 1 hour					
Vibration	Malfunction	0.5mm amplitude at frequency of 10 to 50Hz (for 1 min) in each X, Y, Z direction for 10 min					
Shock	Mechanical	300m/s² (approx. 30G) in each X, Y, Z direction for 3 times					
Snock	Malfunction	100m/s² (approx. 10G) in each X, Y, Z direction for 3 times					
Environ -ment	Ambient temperature	-10 to 50°C, storage: 20 to 60°C					
	Ambient humidity	35 to 85%RH, storage: 35 to 85%RH					
Unit weight		Approx. 83g					

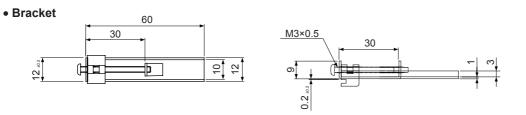
XEnvironment resistance is rated at no freezing or condensation.

L-22 Autonics

Graphic Panel Meter







Input and Connection

Input		Display	Connection			
Voltage	0-2VDC	0-20	0-2VDC, 1-5VDC, 0-10VDC SOURCE			
	1-5VDC	1-50	HI↓			
	0-10VDC	0-10	1 2 3 4 5 6			
Current	DC0-1mA	IĀA	DC0-1mA SOURCE HI \(\sqrt{1} \) LOW \(\sqrt{-} + \)			
	DC4-20mA	4-20	HI DC4-20mA SOURCE LOW - + 1 1 2 3 4 5 6			

Factory Defaults

Parameter	Factory default	Parameter	Factory default
In-E	0-20	dot	0.0
L-5C	0000	1 n-b	0000
H-5C	0.0	LoC	OFF

Error Display

Display indicates "Error" when wrong measuring input value is applied.

O Display an Error

- In case of lower value than measuring input value.
 - E.g.) In case of applying DC2mA when measuring input range is selected as DC4-20mA: LLLL flashes.
- In case of higher value than measuring input value.
 - E.g.) In case of applying DC22mA when measuring input range is selected as DC4-20mA: HHHH flashes.
- In case of damaging the memory chip by high frequency noise, strong surge noise: Er-E flashes.

© Cancellation of Error

- HHHH and LLLL Error is to exceed measuring input range, therefore if measuring input value is applied with in input range, Error message will be cleared automatically.
- au Er is indicated by mis-connection or in case of occurring something wrong in measuring input. Please cut off the power and then check measuring input.
- Er E indicates data damage programmed in memory chip, and damaged data can not be recovered. Ask a dealer shop for A/S.

It is impossible to clear E_{r} - E by end-user, therefore it must be repaired by our engineer.

(A) Photoelectric Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(G) Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets

(I) SSRs / Power Controllers

(K) Timers

(M) Tacho / Speed / Pulse Meters

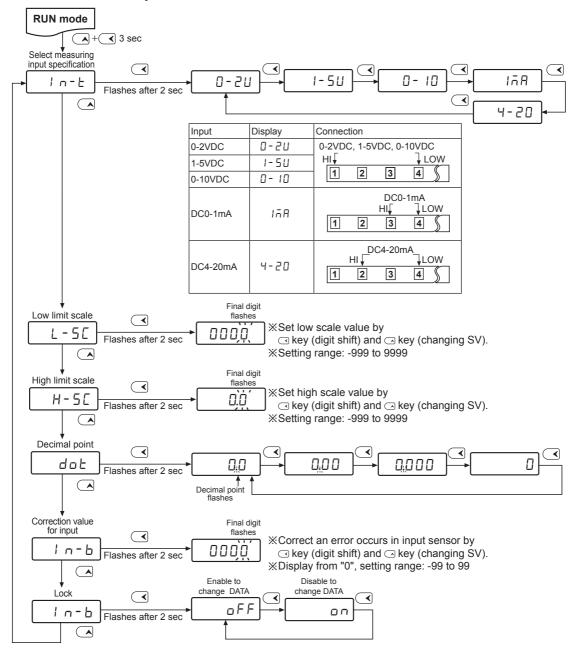
(P) Switching Mode Power Supplies

(Q) Stepper Motors

& Drivers & Controllers (R) Graphic/ Logic Panels

1-23 **Autonics**

Parameter Description



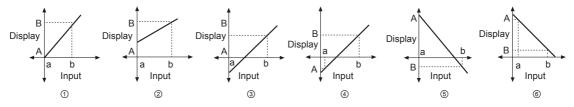
O How to change the setting value

- 1. When advance to MODE, change digit flashing by <a> key then set DATA value by <a> key.
- 2. After complete DATA value setting, please press A key for 2 sec then it will move to next MODE saving DATA.
- 3. Press A key for 2 sec to return RUN mode after changing (setting) DATA value in each MODE.
- XPress → key for 2 sec, then it will return to RUN without change setting value.
- XIf any key is untouched for 60 sec, it will return to RUN mode.

Graphic Panel Meter

■ High/Low-Limit Display Scale Function

This function is to display setting of particular high/low-limit value in order to display high/low-limit value of measuring input. If measuring inputs are a or b and display values are A or B, it will display a=A, b=B as below graph.

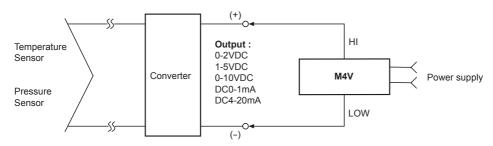


E.g.) Enables to set the display value for input as certain value (not "0") by using High/low-limit display scale function.

Measuring input	Setting value		Display	Graph
	L-Scale: 0	H-Scale: 200	0 to 200	10
0-10VDC	L-Scale: 50	H-Scale: 200	50 to 200	2
0-10VDC	L-Scale: -100	H-Scale: 200	-100 to 200	3
	L-Scale: 200	H-Scale: -50	200 to -50	⑤

 \times High/low-limit value setting range \rightarrow L - 5 Γ (low limit): -999 to 9999, H - 5 Γ (high limit): -999 to 9999 But, there must be offset "1" between L - 5 Γ and H - 5 Γ .

Application Of Connections



■ Proper Usage

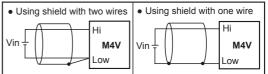
- Please read this catalog before purchase Panel meter.
- Power supply should be insulated and limited voltage/ current or Class 2, SELV power supply device.
- Ambient condition
- Please use this product under -10 to 50°C of ambient operating temperature and less than 35 to 85%RH of humidity. Moreover, use this item near normal temperature 20°C, the most important condition, which manages the accuracy.
- Please avoid the condition of dew status by rapidly changing temperature.
- Please avoid too much vibration or shock.
- Please avoid the place where there are drag, dust, and chemical agent or gas, which is destructive to electrical parts.
- Do not use this item where the voltage or noise is over the proper specification.
 it may cause malfunction.

Storage

When you keep it, please avoid a direct ray of light and keep it under -20 to 60°C of ambient operating temperature and less than 35 to 85%RH of humidity. Wrap and keep it as initial state.

Input Line

Shield wire must be used when the measuring input line is getting longer or there are too much noise.



(A) Photoelectric Sensors

(B) Fiber Optic Sensors

> (C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure

(F) Rotary Encoders

(G) Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets

(H) Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(L) Panel Meter

(M) Tacho / Speed / Pulse Meters

Units

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

(R) Graphic/ Logic Panels

(S) Field Network Devices

> T) Software

Autonics L-25