W75×H25mm Digital graphic panel meter for mosaic panel

Features

- Various input function
- : 0-2VDC, 0-10VDC, 1-5VDC, DC0-1mA, DC4-20mA
- Prescale function(High / Low scale setting)
- Max. display : -999 to 9999
- Error display function and self diagnosis function
- High quality by microprocessor built-in
- Display accuracy :F.S. ±0.2% rdg ±1digit

Please read "Caution for your safety" in operation manual before using.

Ordering information



XIt is enable to customized with another specifications except for standard one.

Specifications

Model		M4V						
Measurement function		DC volt			DC ampere			
Measurement 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		Approx. 2W						
Display method		7 Segment red LED display(Segment height : 14mm)						
Display accuracy		0 to 50°C : F.S. ±0.2% rdg ±1digit -10 to 0°C : F.S. ±0.3% rdg ±1digit						
Sampling period		500ms						
Setting method		Scale set by front swithces						
Set-diagnosis		Error indication						
Insulation resistance		Min. 100MΩ(at 500VDC megger)						
Dielectric strength		2000VAC 50/60Hz for 1 minute						
Noise strength		±300V the square wave noise(pulse width : 1µs) by the noise simulator						
\ (ih and in a	Mechanical	0.75mm amplitude at frequency of 10 to 50Hz(for 1 min.) in each of X, Y, Z directions for 1hour						
VIDIALION	Malfunction	0.5mm amplitude at frequency of 10 to 50Hz(for 1 min.) in each of X, Y, Z directions for 10minutes						
Shock	Mechanical	300m/s²(approx. 30G) in X, Y, Z direction for 3 times						
Shock	Malfunction	100m/s²(approx. 10G) in X, Y, Z directions 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						
Accessory		Mosaic graphic panel mounting bracket						
Unit weight		Approx. 83g						

%Environment resistance is rated at no freezing or condensation.



Graphic Panel Meter

Dimension	sions		 Panel cut-out 	(unit: mm)	(A) Photo electric
7	5 1	5 93	Min. 100		sensor (B)
				2 +0.5 0	Fiber optic sensor
				<u>≈</u> ¥	(C) Door/Area sensor
XIt is attached	d on mosaic graphic pa	nel. Please mount the unit properly o	on general panel		(D) Proximity sensor
Input a	ind connection	I			(E) Pressure sensor
Input	Display	Connection			(F) Rotary encoder
0-2VDC	0-20	0-2VDC, 1-5VDC, 0-10VDC	SOURCE		(G)
1-5VDC	1-50				Connector/ Socket
0-10VDC	0-10				(H) Temp. controller
DC0-1mA	1 - 8	DC0-1mA SOURCE HI JLOW J- + J			
					(J) Counter
DC4-20mA	4-20		SOURCE ' ↓- +↓ 5 6		(K) Timer
					(L) Panel meter
Factor	y default settin	g			(M) Tacho/ Speed/ Pulse meter
1 n-E	U - 2 U	0-2U dot 0.0			(N) Display unit
L - 5C	0.0	1-0-6	00		(O) Sensor
H-5C	0.00	LoC C]FF		controller
					(P) Switching mode power supply
Error c Display inc	lisplay dicates "Error" when wro	ong measuring input value is applied	i.		(Q) Stepper motor& Driver&Controller
 Display In case of lo 	an Error wer value than measur	ing input value.			(R) Graphic/ Logic panel
 Ex)In case of hi Ex)In case of hi 	of applying DC2mA whe igher value than measu of applying DC22mA wh	n measuring input range is selected ring input value. en measuring input range is selecte	as DC4-20mA : LLLL flashes. d as DC4-20mA : нннн flashes.		(S) Field network device
 In case of data 	amaging the memory ch	hip by high frequency noise, strong s	surge noise : Er - E flashes.		(T) Software
 Cancella HHHH and L range, Error 	ation of Error	d measuring input range, therefore d automatically.	if measuring input value is applied	with in input	(U) Other
 DUEr is ind power and th Er - E indication Ask a dealed 	licated by mis-connecti hen check measuring ir ites data damage progra r shop for A/S.	on or in case of occurring somethi iput. ammed in memory chip, and damag	ng wrong in measuring input. Pleas ed data can not be recovered.	se cut off the	

It is impossible to clear Er - E by end-user, therefore it must be repaired by our engineer.

Parameter description



O How to change the setting value

- 1. When advance to MODE, change digit flashing by Key then set DATA value by Key.
- 2. After complete DATA value setting, please press G Key for 2sec. then it will move to next MODE saving DATA.
- 3. Press G Key for 2sec. to return RUN mode after changing(Setting) DATA value in each MODE.

XPress Key for 2sec., then it will return to RUN without change setting value.

- When checking the setting value only in each mode. Press Key for 2sec., then press for 2sec. again.
- (If press continuously, it will not advance to next mode and return to RUN mode)
- % If any key is untouched for 60sec., it will return to RUN mode.

Graphic Panel Meter

Prescale 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.



Ex) Able to set the display value for input as certain value(Not "0") by using prescale function.

Measuring input	Prescale setting value		Display	Graph
	L-Scale : 0	H-Scale : 200	0 to 200	0
0.10//DC	L-Scale : 50	H-Scale : 200	50 to 200	0
0-100000	L-Scale : -100	H-Scale : 200	-100 to 200	3
	L-Scale : 200	H-Scale : -50	200 to -50	5

※Prescale value setting range → L-SC(Low limit) : -999 to 9999, H-SC(High limit) : -999 to 9999 But, there must be offset "1" between L-SC and H-SC.

Application of connections



Proper usage

- Please read this catalog before purchase Panel meter.
- 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) Photo electric sensor

(B) Fiber optic sensor

(C) Door/Area sensor

(D) Proximity

senso

(E) Pressure

senso

(F) Rotary encoder

(G) Connector/ Socket

(H) Temp. controlle

(K) Timer

(M) Tacho/ Speed/ Pulse meter

(L)

(N) Display unit

(O) Sensor controller

(P) Switching mode powe supply

(Q) Stepper motor& Driver&Co

(R) Graphic/ Logic panel

(S) Field network device

(T) Software

