DIGITAL PANEL METER

DC VOLTMETER & AMMETER & PROCESS MONITOR A9011・A901E・A9012・A901B

■Features
* DIN size (48X96mm)
* BCD output (option)

■ Input specifications

●DV voltage measurement

Range	Measurement Range	Display	Accuracy	input impedance	Maximum allowable input
11	±199.99mV	Offset ±19999 Fullscale ±19999	±(0.1% of rdg+2 digit)	100MΩ	±50V
12	±1.9999V				
13	±19.99V			Approx.1MΩ	±250V
14	±199.99V				

●DC voltage measurement 15 range

Range	Measurement Range	Display	Accuracy	input impedance	Maximum allowable input
15	±700.0V	Offset ±19999 Fullscale ±19999	±(0.1% of rdg+3 digit)	100MΩ	±700V

●DC current measurement

Range	Measurement Range	Display	Accuracy	input impedance	Maximum allowable input
22	±1.9999mA	Offset ±19999 Fullscale ±19999	±(0.2% of rdg+2 digit)	Approx.10Ω	±50mA
23	±19.999mA				
24	±199.99mA			Approx0.1Ω	±3A
25	±1999.9mA				

●Process signal measurement

Range	Measurement Range	Display	Accuracy	input impedance	Maximum allowable input
2A	4~20mA	Offset ±19999 Fullscale ±19999	±(0.2% of rdg+3digit)	Approx.10Ω	±50mA
1V	1~5V		±(0.1% of rdg+3digit)	Approx.1MΩ	±50V
3V	0~±10V		±(0.1% of rdg+3digit)	Approx1MΩ	±50V

●Common specification

Operating Type	:Δ Σ conversion type
Input Circuit	:Single Ended Type
Sampling speed	:Maximum 25 times per second
Over range alarm	:Display O.L or -O.L applying to maximum display for the input
Display	:red 7 segment LED (character height 14.2mm)
Display range	:-19999~19999
Maximum display	:19999
Zero display	:Leading zero suppress
Built-in EEPROM	
Number of rewriting	:1,000,000 times(min)
Operating temperature and humidty range	:0~50℃35~85%RH
Storage temperature and humidty range	:-10~70℃ not less than 80% RH
Dimensions	:96mm(H)×48mm(W)×75mm(D)
Weight	:160g(TYP)(AC power supply)/ 150g(TYP)(DC power supply)
Dielectric voltage	:power supply signal input/BCD output / Betweens of external control input AC 1500V per minute(AC power supply) power supply signal input/ BCD output/ Betweens of external control input DC500V per minute(DC power supply) Signal input BCD output/betweens of external control DC500V per minute(common) Case betweens of each terminal AC 1500V per minute (common)
Insulated resistance	:In the above intertermina DC 500V 100MΩ
Attention	・Built-in rewriting EEPROM. in the case of digital zero "OFF" to "ON", setup "ON", digital zero "OFF" to "ON". Please be sure that number of rewriting not surpassing the above number of cases

●AC current (A9111-0□,A9112-0□)
Power supply voltage range:AC100~240V±10%
Consuming VA:4.5VA

●DC power supply (A9311-0□,A9312-0□)
Power supply voltage range:DC5-5%~12V+10%
Electric power consumption:1.5W

●DC power supply(A9411-0□,A9412-0□)
Power supply voltage range:DC12~24V±10%
Electric power consumption:1.5W

■External control

Hold	"Hold terminal or COM terminal" short, or hold "ON" with the "0" level
Digital zero	"DZ terminal or COM terminal" short or digital zero "ON" with the "0" level
Peak hold	"PH terminal or COM terminal" short or peak hold function "ON" with the "0" level
Pattern select	By the combination of P.SEL0 terminal, P.SEL1 terminal open/short(or "1" level/"0" level),select the scaling pattern
Attention)	"0" level :0~1.5V apply to COM, "1" level : 3.5~5V apply to COM

■Option specification

●BCD output

◎At TTL(A9□11-02,A9□1-02)

Measurement data	Tri-state parallel BCD
Porality signal	"1" level at minus display
"OVER" signal	"1" level at OVER display
Printing command signal	A positive pulse of approx.1ms at every measurement
Cutput logic	Available for switching (except the printing commnad signal)
Cutput signal	TTL level, fanout 2 CMOS 5V

◎At open collector

Measurement data	Negative logic transistor "ON" at logic 1
Polarity signal	Transistor "ON" at minus input
"OVER" signal	Transistor "ON" at overflow input
Printing command signal	Transistor "ON" durina a period of approx.20ms At every measurement completion
Transistor output capacity	Applied voltage 30V max Current 10mA max Saturated output voltage less than 1.2V at 10mA

●ENABLE

Function	Shorted Enable and COM terminals, Transistor OFF. (High impedance status at TTL) "0" level :applying to COM 0~1.5V "1" level :applying to COM 3~5V