

DIGITAL PANEL METER

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

NEW!



Input specifications

● DV voltage measurement

Range	Measurement Range	Display	Accuracy	input impedance	Maximum allowable input
11	±199.99mV	Offset ±19999	±(0.1% of rdg+2 digit)	100MΩ	±50V
12	±1.9999V				
13	±19.99V	Fullscale ±19999	±(0.1% of rdg+2 digit)	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	±(0.2% of rdg+3 digit)	Approx.1CΩ	±50mA
23	±19.999mA				
24	±199.99mA	Fullscale ±19999	±(0.2% of rdg+3 digit)	Approx.0.1Ω	±3A
25	±1999.9mA				

● Process signal measurement

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

● Common specification

Operating Type : ΔΣ conversion type
 Input Circuit : Single Ended Type
 Sampling speed : Maximum 25 times per second
 Over range alarm : Display U.L.or -U.L. applying to maximum display or the next
 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 humidity range : 0~53°C35~85%RH
 Storage temperature and humidity range : -10~70°C not less than 50% 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 /
 Between of external control input
 AC 1500V per minute(AC power supply)
 power supply signal input/ BCD output/ Between of
 external control input
 DC500V per minute(DC power supply)
 Signal input BCD output/between of external control
 DC500V per minute(common)
 Case between of each terminal AC 1500V per minute (common)
 In the above interterminal DC 300V 100MΩ
 Insulated resistance : Built-in rewriting EEPROM, in the case of digital zero
 Attention "OFF" to "ON", setup "ON", digital zero "OFF" to "ON".
 Please be sure that number of rewriting not surpassing
 the above number of cases

Features

- * DIN size (48X96mm)
- * BCD output (option)

● 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
 Polarity 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
 Output logic Available for switching
 (except the printing command
 signal)
 Output signal TTL level, output 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" during 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

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