

UNIVERSAL TYPE DIGITAL PANEL METER

A8000

NEW!



Input Specifications

DC voltage , current

● A83□1-0□ (DC voltage)

range	Measurement Range	Display	Input Protection	Accuracy (23°C ± 5°C, 35 to 85%RH)
11	± 199.99mV	offset ± 19999 full scale ± 19999	± 50V	± (0.1% of rdg + 2 digit)
12	± 1.9999V		± 50V	
13	± 19.999V		± 250V	
14	± 199.99V		± 250V	

● A83□2-0□ (DC current)

range	Measurement Range	Display	Input Protection	Accuracy (23°C ± 5°C, 35 to 85%RH)
22	± 1.9999mA	offset ± 19999 full scale ± 19999	± 50mA	± (0.2% of rdg + 2 digit)
23	± 19.999mA		± 50mA	
24	± 199.99mA		± 3A	
25	± 1999.9mA		± 3A	

AC voltage, current (TRUE-RMS)

● A83□4-0□ (AC voltage)

range	Measurement Range	Display	Input Protection	Accuracy (23°C ± 5°C, 35 to 85%RH)
11	199.99mV	offset ± 19999 full scale ± 19999	50V	± (0.2% of rdg + 20 digit)
12	1.9999V		50V	
13	19.999V		250V	
14	199.99V		250V	

Frequency range : 40Hz to 1kHz

Response time : Approx 1 sec (10% to 90%)

Dead band : 100 digit

● A83□5-0□ (AC current)

range	Measurement Range	Display	Input Protection	Accuracy (23°C ± 5°C, 35 to 85%RH)
23	19.999mA	offset ± 19999 full scale ± 19999	50mA	± (0.5% of rdg + 20 digit)
24	199.99mA		3A	
25	1999.9mA		3A	

Frequency range : 40Hz to 1kHz

Response time : Approx 1 sec (10% to 90%)

Dead band : 100 digit

Process

● A83□B-0□

range	Measurement Range	Display	Input Protection	Accuracy (23°C ± 5°C, 35 to 85%RH)
1V	1 to 5V	Offset : ± 19999 Fullscale ± 9999	± 50V	± (0.1% of rdg + 3digit)
2V	4 to 20mA		± 50mA	

Excitation power supply : 24VDC ± 10% 30mA

Features

- Power Supply : 5V to 12VDC, 12V to 24VDC
- BCD Output (option)
- 4 1/2 digit

Thermocouple • RTD

● A83□C-0□ (Thermocouple)

range	Sensor type	Measurement Range	Maximum Resolution	Accuracy (23°C ± 5°C, 35 to 85%RH)
KA	K	-50.0 to 199.9°C	0.1°C	± (0.5% of FS)
KB	K	-50 to 1200°C	1°C	± (0.2% of FS)
J	J	-50 to 1000°C	1°C	± (0.2% of FS)
T	T	-50 to 400°C	1°C	± (0.6% of FS)
S	S	0 to 1700°C	1°C	± (0.4% of FS)
R	R	-10 to 1700°C	1°C	± (0.4% of FS)
B	B	100 to 1800°C	1°C	± (0.4% of FS) applied over 500°C

Cold junction compensator accuracy : ± 2°C (10 to 40°C)

Sensor lead resistance : less than 50Ω

Linearizing method : Digital linearizing

Burn out alarm : - - - -

● A83□D-0□ (RTD)

range	Sensor type	Measurement Range	Maximum Resolution	Accuracy (23°C ± 5°C, 35 to 85%RH)
PA	PT100Ω	-100.0 to + 199.9°C	0.1°C	± (0.15% of FS)
PB	PT100Ω	-100 to + 600°C	1°C	± (0.3% of FS)

available Fahrenheit display

Output Specification

● BCD output

Type of output: Open collector or TTL
 Logic: Changeable
 Output rate: DC30V 10mA (open collector)
 Funout 2 (TTL)

● External Control

Hold: Shorted HOLD terminal and COM terminal or equipotential, Hold ON
 Digital Zero: Shorted DZ terminal and COM terminal or equipotential, Digital zero ON
 Peak Hold: Shorted PH terminal and COM terminal or equipotential, Peak hold ON

Common Specification

Display: Red LED 10mm height
 Maximum display: -19999 to 19999
 Conversion rate: 20times/sec
 Overrange indication: When input exceed the maximum display display OL or -OL
 Zero display: Leading zero suppression
 Decimal point: Settable to any digit position
 Operating temp: 0 to 50°C (35 to 85% RH)
 Storage temp: -10 to 70°C less than 60%RH
 Power supply: 5V to 12VDC, 12V to 24VDC
 Power consumption: Appro x 1.5W
 Dimensions: 48mm (W) x 24mm (H) x 96mm (D)
 DIN size
 Weight (unit only) : Appro x 100g
 Dielectric strength: Power supply/input terminal/output terminal/external control DC500V/min
 Input terminal/output terminal/external control DC500V/min
 Case/each terminal AC1500V/min
 Insulation resistance: DC500V more than 100MΩ at the above terminals

UNIVERSAL TYPE DIGITAL PANEL METER

A8000

■ Ordering Code

A8 □ □ □ - 0 □

Option

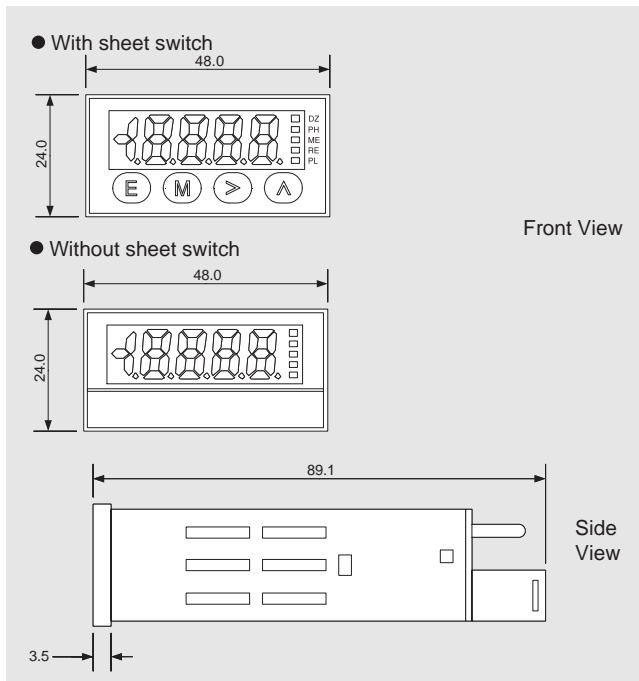
Input

Front sheet

Power supply

- 1. none
- 2. BCD (TTL), external control
- 3. BCD (Open collector), external control
- 1. DC voltage
- 2. DC current
- 4. AC voltage
- 5. AC current
- B. Process
- C. Thermocouple
- D. RTD
- 1. with sheet switch
- 2. without print sheet switch
- 3. 5V to 12VDC
- 4. 12V to 24VDC

■ Dimensions



We reserve the right to change specifications without notice.



ASAHI KEIKI CO.,LTD.

3rd Fl., Ehara Bldg., 5-7, Kaji-cho 1-chome,
Chiyoda-ku, Tokyo 101-0044, Japan
TEL:+81-3-3251-5576
FAX:+81-3-3251-5567
[http:// www.asahikeiki.co.jp](http://www.asahikeiki.co.jp)
E-mail: dpm-overseas@asahikeiki.co.jp

Printed in Japan, Jun. 2005 (KP)

ASAHI KEIKI CO.,LTD.