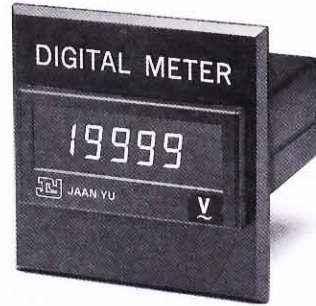


# 4 1/2 DIGITAL METER

**MODEL  
J-596**

## FEATURES

- 4 1/2 display: 19999
- Accuracy ±0.03% to ±0.1%
- Easy-to-wire, screw-type terminals
- Outside dimension is DIN standard (96 × 48mm, 110 × 110mm)
- Data holding is available



## SPECIFICATION

### • Direct Input

Variable to be Measured	Measuring Range	Input Impedance	Resolution
DC	199.99µA	1KΩ	0.01µA
	1.9999mA	100Ω	0.0001mA
	19.999mA	10Ω	0.001mA
	199.99mA	1Ω	0.01mA
AC	1.9999A	0.1Ω	0.0001A
	15.000A	0.1Ω	0.001A
TRMS	199.99mV	≥ 5MΩ	0.01mV
	1.9999V	≥ 1MΩ	0.0001V
	19.999V	≥ 1MΩ	0.001V
	199.99V	≥ 1MΩ	0.01V
	750.0V	≥ 1MΩ	0.1V

### • Ratio Input (Secondary of CT, PT)

Variable to be Measured	Input Range	Input Impedance	Display Range
AC	0 ~ 1A	0.1Ω	appointed as primary value of CT, PT
	0 ~ 5A	0.1Ω	
TRMS	0 ~ 110V	≥ 1MΩ	
	0 ~ 220V	≥ 1MΩ	

### • Receiving Meter

Variable to be Measured	Input Range	Input Impedance	Display Range
DC	0 ~ 50mV	≥ 5MΩ	appointed
	0 ~ 60mV	≥ 5MΩ	
	0 ~ 5V	≥ 1MΩ	
AC	1 ~ 5V	≥ 1MΩ	
	0 ~ 10V	≥ 1MΩ	
TRMS	0 ~ 1mA	10Ω	
	4 ~ 20mA	10Ω	

Display ..... 14.2mm (0.56") H, red LED  
 Max. input over capability ..... Amp. 3 × rated continuous  
 10 × rated 30 seconds  
 50 × rated 1 seconds  
 Volt. 750V continuous  
 Accuracy ..... DC volt range ±0.03% F.S. ±1 digit  
 DC amp range ± 0.03% F.S. ±3 digits  
 AC volt range ± 0.1% F.S. ±2 digits  
 AC amp range ± 0.1% F.S. ±4 digits  
 (Option: Depending on actual measurin)  
 Measuring mode ..... Dual slope  
 Sampling time ..... Abt. 0.8 sec typically  
 Frequency range ..... 45 ~ 400Hz for AC range  
 Over input indication ..... "0000" Flash  
 Polarity ..... Only "-" display  
 Aux. power source ..... AC 110V/220V ±10%, 50/60Hz  
 DC 24V, 48V, 110V ±15%  
 Power consumption ..... ≤ AC 3VA, ≤ DC 3W  
 Operating temperature range ..... 0 ~ 60°C  
 Sensor power supply ..... DC 12V or 24V 30mA  
 (Option function)  
 Storage temperature range ..... 10 ~ 70°C  
 Temperature coefficient ..... ≤ 100PPM/°C  
 ≤ 60PPM/°C, 25°C ±10°C  
 Max. relative humidity ..... 95%  
 Dielectric strength (IEC 688) ..... AC 2KV/1 minute  
 Input to power terminals  
 AC 3KV/1 minute  
 All terminals to case  
 Impulse (IEC 255-4) ..... Common mode 1.2 × 50µS 4 KV  
 Connection diagram ..... See page 17, figure A.  
 Dimensions ..... See page 17, figure 01.

## ORDERING INFORMATION

J-596 -     -

A	110 × 110mm
B	96 × 48mm

Input Signal	Measuring Range	Aux. Power Source
D: DC A: AC T: TRMS	A1: 199.99µA    A7: 0 ~ 1A A2: 1.9999mA    A8: 0 ~ 5A A3: 19.999mA    V6: 0 ~ 110V A4: 199.99mA    V7: 0 ~ 220V A5: 1.9999A    P1: 0 ~ 50mV A6: 15.000A    P2: 0 ~ 60mV V1: 199.99mV    P3: 0 ~ 5V V2: 1.9999V    P4: 1 ~ 5V V3: 19.999V    P5: 0 ~ 10V V4: 199.99V    P6: 0 ~ 1mA V5: 750.0 V    P7: 4 ~ 20mA 00: Option	1: AC 110V/220V A: DC 110V B: DC 48V C: DC 24V 0: Option

### • EXAMPLE

Measured range : AC 750V  
 Aux. power source : AC 110V/220V  
 Ordering model : J-596-AV51  
 Measured range : DC 4 ~ 20mA  
 Display : 0 ~ 100.00%  
 Aux. power source : AC 110/220V  
 Ordering model : J-596-DP71  
 (appointed display range : 0 ~ 100.00%)