

# CSN-VA 3 1/2 Digits Voltage/Current Meter

ADTEK

## Description

CSN-VA is an economic & simple indicator, large LED display 20.0mm height, anti-jamming design, reliable quality and easy installation.

Multiple range of input models, you can specify AC or DC voltage / current, for all general measurement requirements.



CSN-VA

## Features

- User-adjustable zero, coarse and fine-tuning three wired potentiometers, direct adjustment of on-site display
- 20.0mm large high brightness LED display; straight terminal design, no quality issue; installation depth of only 73mm

## Ordering Information

CSN - VA		Input signal	Input range	Aux. Power			
CODE	Input	CODE	Voltage Input	CODE	Current Input	CODE	Aux. Power
D	DC signal	V1	0 ~ 199.9 mV	A1	0 ~ 199.9 $\mu$ A	A	AC 115/230V
A	AC signal	V2	0 ~ 1.999 V	A2	0 ~ 1.999 mA	D24	DC 24V
		V3	0 ~ 19.99 V	A3	0 ~ 19.99 mA		
		V4	0 ~ 199.9 V	A4	0 ~ 199.9 mA		
		V5	0 ~ 300 V	A5	0 ~ 1.999 A		
		V6	0 ~ 600 V	A6	0 ~ 1.000 A		
		VA	0~50.0 mV	A7	0 ~ 5.00 A		
		VB	0~60.0 mV	A8	0 ~ 10.00 A		
		VC	0~100.0 mV				

## Technical Specification

### Input

Input Signal and Range	Resolution	Accuracy	Impedance
AC/DC Voltage	0~50/~100 mV	0.1 mV	$\geq 5M\Omega$
	0~199.9 mV	0.1 mV	$\leq \pm 0.1\%$ of FS $\pm 1C$
	0~1.999 V	0.001 V	$\geq 1M\Omega$
	0~19.99 V	0.01 V	$\geq 1M\Omega$
	0~199.9 V	0.1 V	$\geq 1M\Omega$
	0~300 V	1 V	$\leq \pm 0.2\%$ of FS $\pm 1C$
	0~600 V	1 V	$\geq 3M\Omega$
AC/DC Current	0~199.9 $\mu$ A	0.1 $\mu$ A	DC: $1K\Omega$
	0~1.999 mA	0.001 mA	$\leq \pm 0.1\%$ of FS $\pm 1C$
	0~19.99 mA	0.01 mA	$100\Omega$
	0~199.9 mA	0.1 mA	$10\Omega$
	0~1.999 A	0.001 A	AC: $1\Omega$
	0~5.00 A	0.01 A	$0.05\Omega$
	0~10.00 A	0.01 A	$0.02\Omega$

Calibration: Potentiometer  
 Zero adjustment:  $\leq 2\%$  F.S(Clockwise to increase)  
 Span adjustment: Coarse 0~100% (Clockwise to increase)  
 Trimming  $\leq 5\%$  F.S (Clockwise to increase)  
 Sampling rate: 1 cycle/sec

### Display & Functions

LED: Numeric: 3 1/2 digits,  
 0.8" (20.0mm) high-brightness LED  
 Display range: -1999~1999  
 Decimal point: Short films from 0 / 0.0 / 0.00 / 0.000  
 Over range Indication: "H": when input is over range Hi  
 Under range indication: "L": when input is over range Lolnput  
 overload capacity:

Voltage: 1.2 rated continuous  
 1.5 rated input under 10 seconds  
 Current: 10 rated input under 10 seconds

### Power

Power supply: AC 115 / 230V, 50/60Hz  
 DC 24V  $\pm 10\%$   
 Power consumption: 2.5VA

### Electrical Safety

Dielectric strength: AC 2KV, 50/60Hz for 1 min,  
 Between Power / Input / Output / Case  
 Insulation resistance:  $\geq 100 M\Omega @ 500Vdc$ ,  
 Between Power / Input / Output / Case

### Environmental

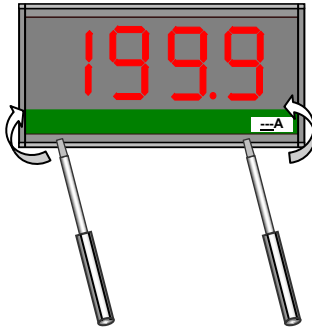
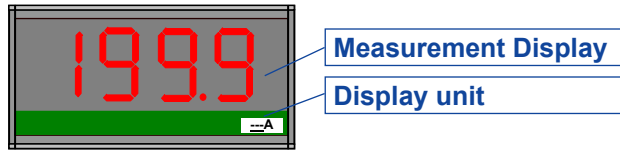
Operating temp.: 0~60  $^{\circ}C$   
 Operating humidity: 20~95 %RH, Non-condensing  
 Temp. coefficient:  $\leq 100 PPM/^{\circ}C$  (0~50 $^{\circ}C$ )  
 Storage temp.: -10~70  $^{\circ}C$   
 Enclosure: Front panel: IEC 529 (IP52); Housing: IP20

### Mechanical

Dimensions: 96mm(W) x 48mm(H) x 80mm(D)  
 Panel cutout: 92mm(W) x 44mm(H)  
 Case material: ABS fire-resistance (UL 94V-0)  
 Mounting: Panel flush mounting  
 Terminal block: Plastic NYLON 66 (UL 94V-0);  
 20A/300Vac, M3.5,  
 1.3mm<sup>2</sup>~3.5mm<sup>2</sup>(22~12AWG)  
 Weight: 310g

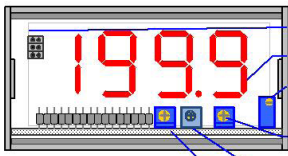
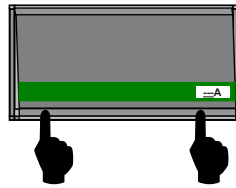


## Front Panel & Adjustment



### Open and put back the front panel

1. Put the slotted screwdriver in the gap under the panel and pry open
2. Please keep the panel carefully
3. When put the panel back, align the panel upper edge first then press it

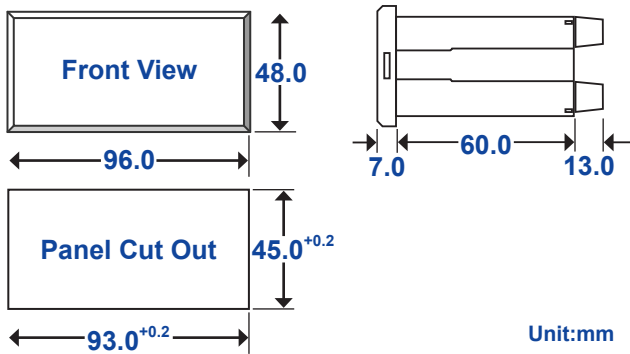


- Short Jumper for D.P.
- 7-Segment Display LED
- F.S. Fine-tuning VR(Clockwise to increase: PV Increase)
- F.S. Coarse VR(Clockwise to increase: PV Increase)
- AC Zero Adjustment VR(Clockwise to increase: PV Increase)
- DC Zero Adjustment VR(Clockwise to increase: PV Increase)

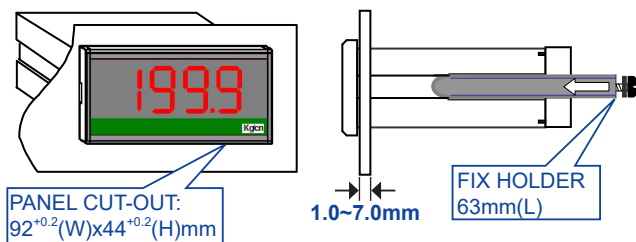
### Short Jumper for Decimal Point



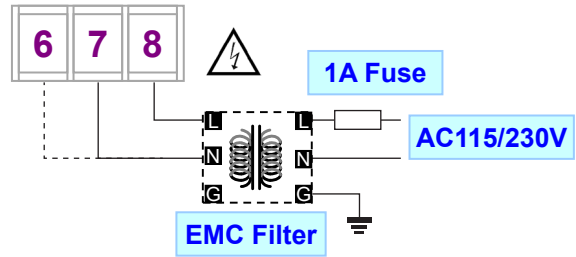
## Dimensions



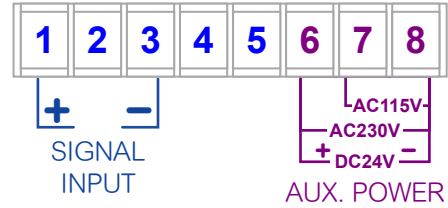
## Installation



## Power Connection



## Input Signal



## Input Connection

