



# 19999

**DE-M945D** DC V/A, Analog Meter

**DE-M945A** TRMS AC V/A Meter

### Features

- 4 1/2 Digits (Option : 0~50000)
- True RMS V/A
- Rate free setting
- Direct setting function
- 4~20mA, 1~5V Measurement
- RS-485 interface (Modbus)
- Analog Output (Option)
- ABS fire-retardant case(94-V0)
- DIN case 96 x48mm

### Specifications

**Display** : Red LED 0.56" (14.2mm) high

**Max. Display** : 4 1/2 Digits ( ±19999 )

**Polarity Display** : "—" symbol is displayed automatically

**Over range Indication** : " O.L "

**Conversion Rate** : 2.5/sec.(DC) or 1/sec.(AC)

**Decimal Point** : Settable to any digit position by front sheet switch

**Output** : RS-485 or RS-232 (Modbus) — Option

**Accuracy** : DC ±0.05% FS. ( 23 ±5°C )

AC ±0.1% FS. ( 23 ±5°C )

**Operating Temp.** : 0~50°C/ Below 80%R.H.  
(No Condensation)

**Storage Temp.** : -10~60°C/ Below 70% R.H.  
(No Condensation)

**Power Supply** : AC 115/230V ±10%, 50/60Hz  
Option : DC 24, 48, 120V ±20%

**Power Consumption** : Approx. 5VA

**Weight** : Approx.500g

**Dielectric Strength** : AC 1500V/1min ( Input/Power )

**Insulation Resistance** : More than 100MΩ at 500VDC

**Dimensions** : 96(W) x48(H) x144(D)mm

**Panel Cut-Out** : 91.5(W) x44(H)mm

### Current Measurement

Code	Range	Input Impedance	Input Protection	Display Adjustable
A1	0~1.9999mA	100Ω	50mA	Offset ±19999 Fullscale ±19999
A2	0~19.999mA	10Ω	150mA	
A3	0~199.99mA	1Ω	500mA	
A4	0~1.9999A	0.1Ω	3A	
A5	0~5.000A	0.05Ω	10A	
A6	0~10.000A	0.01Ω	15A	

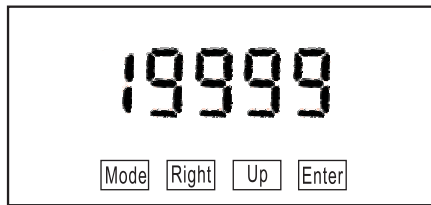
### Voltage Measurement

Code	Range	Input Impedance	Input Protection	Display Adjustable
V1	0~ 1.9999V	1MΩ	300V	Offset ±19999 Fullscale ±19999
V2	0~ 19.999V	1MΩ	300V	
V3	0~ 199.99V	1MΩ	600V	
V4	0~ 600.0V	1MΩ	300V	

### Analog Input Measurement

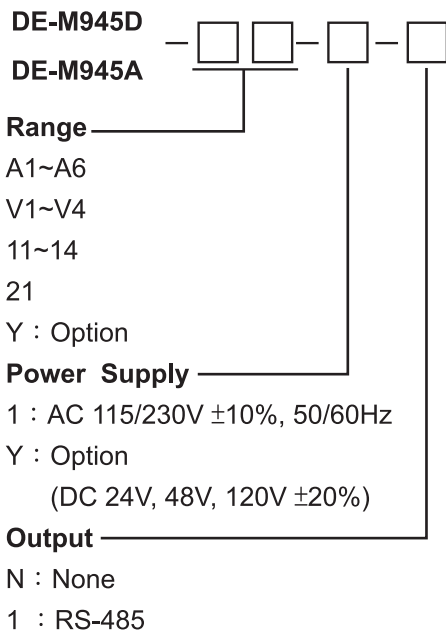
Code	Range	Input Impedance	Input Protection	Display Adjustable
11	DC 1~5V	1MΩ	±300V	Offset ±20000 Fullscale ±20000
12	DC 0~10V			
13	DC 0~50mV			
14	DC 0~60mV			
21	DC 4~20mA	10Ω	±200mA	

## ■ RS-485 Interface (Option)



Address : 1 ~ FF  
 Baudrate : 19200,9600,4800,2400,1200  
 Frame : (1)N.8.2  
           (2)E.8.1  
           (3)O.8.1  
 Protocol : Modbus RTU Mode

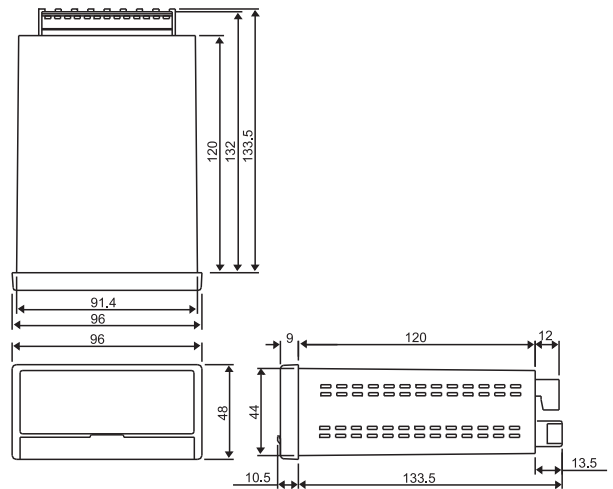
## ■ Order Code



### Code Number

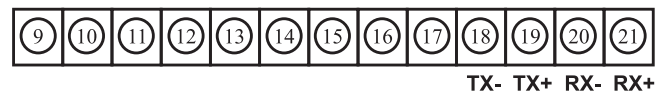
Example : DM - 42A - A5 - 1 - 1N  
 Measurement : AC 0~5.000A TRMS  
 Power Supply : AC 115/230V ±10% , 50/60Hz  
 Output RS-485

## ■ Dimension

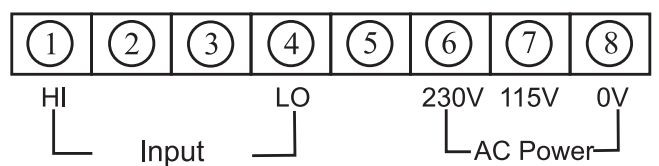


## ■ Connection Diagram

### Upper



### Lower



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**DER EE**

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ISO 9001

Appearance and specification may be revised if needed without notice in prior.