

## PA(V)2566 Series Programmable Digital Ammeter and Voltmeter



### 1 Overview

PA(V)2566 series programmable digital display ammeter and voltmeter are primarily used for real-time measurement and indication of the current and voltage in the single-phase power line. The instrument has optional switching output (upper and lower limit alarm) module, analog transmission output module, RS485 digital communication module for users. Through the instrument keyboard, the upper and lower limit alarm value (or range) and alarm switching difference, communication address and communication baud rate, transmission output mode and transmission output range, and digital filter coefficient can be set very conveniently.

### 2 Product Functions and Features

With high measurement accuracy, good stability, long-term operation without debugging, and parameters setting on site through panel keys.



### 3 Product Parameters

#### 3.1 Measurement range

AC voltmeter

Direct measurement: AC0-660V

External device: ACO-9999kV (external \*/100V voltage transformer; the range can be programmed within the measurement range arbitrarily)

DC voltmeter

Direct measurement: DC660V

AC ammeter

Direct measurement: AC0-10A

External device: AC0-9999A (external \*/5A current transformer; the range can be programmed within the measurement range arbitrarily)

DC ammeter

Direct measurement: DC0~±10A

External device: DC-1999~+9999A (external \*/75mV shunt; the range can be programmed within the measurement range arbitrarily).

3.2 Measurement accuracy:  $\pm 0.5\%FS \pm 1$  word.

3.3 Sample rate: about 3 times/s.

3.4 Display mode: three rows of four-bit LED digital tube display.

3.5 Display resolution: 1, 0.1, 0.01, and 0.001 can be set freely.

3.6 Voltage input circuit power consumption: <1VA.

3.7 Current input circuit power consumption: <0.5VA.

3.8 Aux. power supply: AC/DC: 85~270V.

3.9 Auxiliary power consumption: <4VA.

3.10 Overflow indication: the character "HHHH" is displayed.

3.11 Transmission output: 0~20mA or 4~20mA can be set freely, with accuracy  $\pm 0.5\%FS$ . Electrical isolation between the signal input and the auxiliary power port.

3.12 Transmission output load resistance:  $\leq 500\Omega$ .

3.13 Alarm output: The upper and lower limit alarms are output through the same relay with the contact capacity AC250V/2A, DC30V/2A.

3.14 Communication interface: RS485 serial communication, with MODBUS\_RTU communication protocol.

3.15 Working environment: temperature  $-20^{\circ}\text{C} \sim 55^{\circ}\text{C}$ , humidity  $\leq 90\%$  RH corrosive occasions.

### 4 Precautions

4.1 Before power-on, please confirm whether the auxiliary power supply, input signal and wiring are correct;

4.2 The meter shall be warmed up for 15 minutes for accurate measurement;

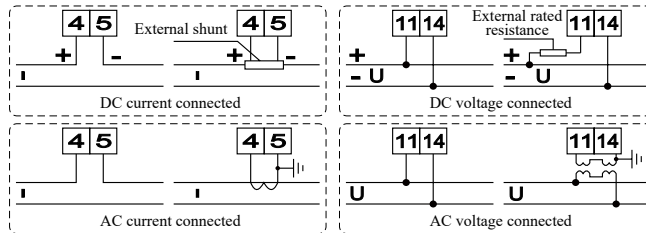
4.3 The instrument should not be subject to knock, collision and severe vibration, and the working environment should meet the technical requirements;

4.4 The measuring range has been set to be consistent with the specifications provided by the user when ordering when leaving the factory. Users are required to check that the range setting value of the instrument is consistent with the specification of the matched transformer or shunt used by users again. If inconsistent, please re-set the instrument range.

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### 5 Wiring and Terminal Description

18	17	16	15	70	71	72
DO2		DO1		COM	D11	D12
Switching output				Switching input		



Aux. power	
L	N
1	2

RS485		Voltage signal input	
A	B	UH(+)	UL(-)
58	59	11	14

Current signal input	
I*(+)	I(-)
4	5

### 6 Ordering Notice

Please specify the product model, specification and quantity when ordering. For special requirements, please contact the manufacturer.