

AI-601/6010/6011 CURRENT/ VOLTAGE/ POWER METER

PRODUCT INTRODUCTION

AI series power meter includes AI-601 AC power meter, AI-6010 AC voltage meter and AI-6011 AC current meter. AI-601 AC power meter can display voltage or current as well by parameter setting. Products are designed for 10-year life at least and 3-year free warranty. In addition, user can choose Yudian intelligent indicator AI-500/501/700/701/751 for measuring DC voltage or DC current, including 0~20VDC, 0~50VDC, 0~100VDC, 0~200VDC, 0~500VDC, 0~1000VDC or 0~5ADC and etc.

FUNCTIONS AND FEATURES

- Freely defined measurement scale and decimal point position
- Up to four channels of alarm relay output, including high limit, low limit, second high limit and second low limit.
- Support high accuracy retransmission output with accuracy up to 14-bit D/A and temperature drift less than 100PPm/°C.
- Support RS485 communication to split paperless recorder and touch screen control system.

TECHNICAL SPECIFICATIONS

- Input:
 - AC Current: 0~5A (other input specification can be customized)
 - AC Voltage: 0~500VAC (0~250VAC or other input specification can be customized)
 - Power: Power display range can be freely defined according to the input of AC voltage and current
- Measuring accuracy: 0.2%FS (0.2%FS/°C ±1 byte)
- Temperature shift: ≤0.01%FS/°C (typical value is approximate 50ppm/°C)
- Retransmission: PV retransmission output when X3 current module is installed in OUTP slot (max load resistance is 500Ω)
- Alarm function: high limit, low limit, second high limit and second low limit.
- Power consumption: ≤5W, without any module ≤1W

OVERALL DIMENSIONS



A (96*96mm)



A2 (96*96mm)



B (160*80mm)



B2 (160*80mm)



C (80*160mm)



C3 (80*160mm)



D (72*72mm)



E (48*96mm)



E2 (48*96mm)



E5 (DIN rail mounted)



F (96*48mm)

MODEL SELECTION AND SPECIFICATIONS

AI- □ □ □ □ □ □ □ □ □									Specifications
Model	601								power meter
	6010								AC volt meter
	6011								AC current meter
Panel size	A								96*96*100mm
	A2								96*96*100mm, with 25 segments and 4 levels of luminosity
	B								160*80*100mm
	B2								160*80*100mm, with 25 segments and 4 levels of luminosity
	C								80*160*100mm
	C3								80*160*100mm, with 50 segments and 2 levels of luminosity
	D								72*72*95mm
	E								48*96*100mm
	E2								48*96*100mm, with 25 segments and 4 levels of luminosity
	E5								48*96*100mm, DIN rail mounted type
	F								96*48*100mm
Multiple input (MIO)		V*							V24, V12, V10 is for 24VDC, 12VDC, 10VDC power supply module
Output (OUTP)		X3							linear current 4-20mA output (occupy internal 12V power supply)
		X5							linear current 4-20mA output (with isolated power supply)
Alarm (ALM)			L0						large volume relay contact output (250VAC/2A) (Chinese brand)
			L2						small volume relay contact output (250VAC/1A) (Omron brand)
			L3						dual channel N/O relay contact output (250VAC/2A) (Chinese brand)
			G						SSR voltage output (12VDC/30mA)
			W1/W2						thyristor contactless switch output module(W1: N/O,W2: N/C)
Auxiliary alarm(AUX)			L0						large volume relay contact output (250VAC/2A) (Chinese brand)
			L2						small volume relay contact output (250VAC/1A) (Omron brand)
			L3						dual channel N/O relay contact output (250VAC/2A) (Chinese brand)
			G						SSR voltage output (12VDC/30mA)
Communication (COMM)			S						RS485 communication interface (occupy internal power supply)
			S4						RS485 communication interface (with isolated power supply)
Color			Q						Black
			Z						Gray

MODEL SELECTION

AI-601AV24X3L2L2S4, main model for instrument is power meter AI-601, front panel size A 96*96mm, 24VDC feed supply, linear current 4-20mA output, with two channels alarm and RS485 communication interface.

WIRING DIAGRAM

