



DIGITAL PANEL METER

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METERING

Range Presentation

HP606 is Himel range of new Digital Meters:

- Applied to power monitoring and panel builder cabinet
- Product types: current, voltage, combination, and multifunction
- Dimension types: 3 types (96, 72, 48)



Features

- ◆ New design and elegant appearance: material of high permeability plexiglass, LED or LCD display; and wide visual range
- ◆ Accurate metering and reliable performance: high accuracy and resolution ratio; high ability of overloading
- ◆ Four-remote control: teleindication, telecontrol, Telemetry, and remote regulating
 - √ Teleindication: build communication with data collector, network module, and workstation via Rs485
 - √ Telecontrol: operation on local or remote workstation (off-site), e.g. remote tripping and closing
 - √ Telemetry: remote parameters adjustment
 - √ Remote regulating: remote parameters metering

Range Presentation

HDDS606 and HDT(S)S606 series are Himel range of Electronic Watt-hour Meter, which provide:

- Measuring the active energy in the single-phase or three-phase AC power network at frequency of 50Hz or 60Hz
- Measuring the active energy of enterprises, transformer sub-station or power stations, and be used as automatic meters of power transmission and distribution network



Features

- ◆ Smaller and Elegant:
 - 50% smaller in size to save installation space
 - Upgraded appearance design
- ◆ Accurate Measurement & Safe and Reliable:
 - Automatic calibration for inspection
 - Three lead sealings: factory, verification and installation; more secure for electricity anti-stealing.
- ◆ Well Designed & Intelligent and Convenient:
 - Wider current range, and easier for model selection
 - First limit design of bump on the tail cover in our industry, and flip angle of the tail cover can be more than 135°
 - More convenient and firming on wiring.
- ◆ Qualified Materials & Excellent Performance:
 - Temperature rise is only 15K, which is far less than national standard 25K.
 - Power loss is less than 0.5W.
 - Heat deformation temperature reaches to 200°C

Range Presentation

HLMK Series is Himel range of Current Transformer, to measure and transform high current to low current

Features

- ◆ 100% pure copper varnished wire
- ◆ Optimized electric conductivity, less power loss and better stability
- ◆ Shell is made of flame retardant PC material
- ◆ Maximum rated voltage is 0.66kV



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HP606 Digital Panel Meters

Standard: IEC60051



Product Overview

- New design, and it's applied to power monitoring and panel builder cabinet
- Product types: current, voltage, combination, and multifunction
- Dimension types: 3 types (96, 72, 48)

Model Selection

The HP606 Series includes the following models:

- HPZ single/three-phase voltmeter
- HPA single/three-phase amperemeter
- HPD combination meter
- HPDM multifunction meter

Selection Code

Model	Input mode	Panel dimension	Meter structure	Display mode	Range	
HP*606	L	72	P	1	Y 5A	
HPA606: HPA606 Amperemeter	L: AC	48: 96×48 mm (only for single-phase meter)	P: Programmable Display Instrument S: DO+RS485	1: One-row LED display	NA	5A: Secondary 1A: Secondary
		72: 72×72 mm		1: One-row LED display 4: Three-row LED display		
		96: 96×96 mm	P: Programmable Display Instrument S: DO+RS485	1: One-row LED display 4: Three-row LED display 4: Three-row LED display		
HPZ606: HPZ606 Voltmeter	L: AC	48: 96×48 mm (only for single-phase meter)	P: Programmable Display Instrument S: DO+RS485	1: One-row LED display	Y: 100V O: 600V	NA
		72: 72×72 mm	P: Programmable Display Instrument S: DO+RS485	1: One-row LED display 4: Three-row LED display		
		96: 96×96 mm	P: Programmable Display Instrument S: DO+RS485	1: One-row LED display 4: Three-row LED display 4: Three-row LED display		
HPD606: HPD606 Combination meter	L: AC	72: 72×72 mm	P: Programmable Display Instrument T: RS485	4: Three-row LED display	Y: 100V O: 600V	5A: Secondary 1A: Secondary
		96: 96×96 mm				
HPDM606: HPDM606 Multifunction meter	L: AC	72: 72×72 mm	P: Programmable Display Instrument T: RS485	3Y: Three-phase LCD display (only for multifunction meter) 4: Three-row LED display	Y: 100V O: 600V	5A: Secondary 1A: Secondary
		96: 96×96 mm	P: Programmable Display Instrument T: RS485			

Note: Normally the combination meter is composed of voltage, current, and frequency. If customer needs more functions, then a multi-function meter is required.

Features

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- ◆ Accurate metering and reliable performance: high accuracy and resolution ratio; high ability of overloading
- ◆ Four-remote control: teleindication, telecontrol, Telemetry, and remote regulating
 - √ Teleindication: build communication with data collector, network module, and workstation via Rs485
 - √ Telecontrol: operation on local or remote workstation (off-site), e.g. remote tripping and closing
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Online Content



HP606

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Range Table

Current range	Direct connection AC: 0.1~5A DC: 0~5A AC: external current transformer 5A/5A 10kA/5A DC: current shunt 75mV 10kA/75mV
Voltage range	Direct connection AC: 3~600V; DC: 0~600V AC: external voltage transformer 380V/100V~ 380kV/100V; DC: external resistor of 750V~ 1.5kV
Frequency range	45Hz~65Hz
Power factor	0.5 (lead) ~1 ~0.5 (lag)

Technical Parameters

Input	Network system	Single-phase & Three-phase		
	Voltage	Overload	Continuous: 1.2×Un; Instantaneous: 2×Un for lasting 1s	
	Current	Overload	Continuous: 1.2×In; Instantaneous: 10×In for lasting 5s	
	Frequency		45~65Hz	
Function module	Switch input (DI)	Photocoupler Isolation of passive dry contact		
	Switch output (DO)	Output of two-loop passive relay, contact capacity: 3A/30VDC,3A/250VAC, Values of upper and lower limit alarm, hysteresis can be set as what you want. Output method: remote control (used as switch output) or off-limit alarm		
	Electrical energy pulse	Two-loop electrical pulse output		
	Electrical energy pulse constant	Active power: 8000imp/kwh Reactive power: 8000imp/kvarh		
	Communication	Method	RS485	
		Protocol	MODBUS-RTU	
		Baud rate	1200, 2400, 4800, 9600 bps	
Parity bit		Odd parity, even parity, no parity		
Display	Display mode	(1) Long lifecycle and highlighted LED display; (2) Wide viewing LCD display		
Accuracy Class	Voltage, current, frequency, active power, power factor	Class 0.5		
	active energy	Class 1		
IP Protection		IP54		
Auxiliary power supply	Range	AC220V		
	Power consumption	< 5VA		
Standard		IEC 60068-2, IEC 61010-1, IEC 60529, IEC 61000-4, IEC 61557-1		

Working Environment and Condition

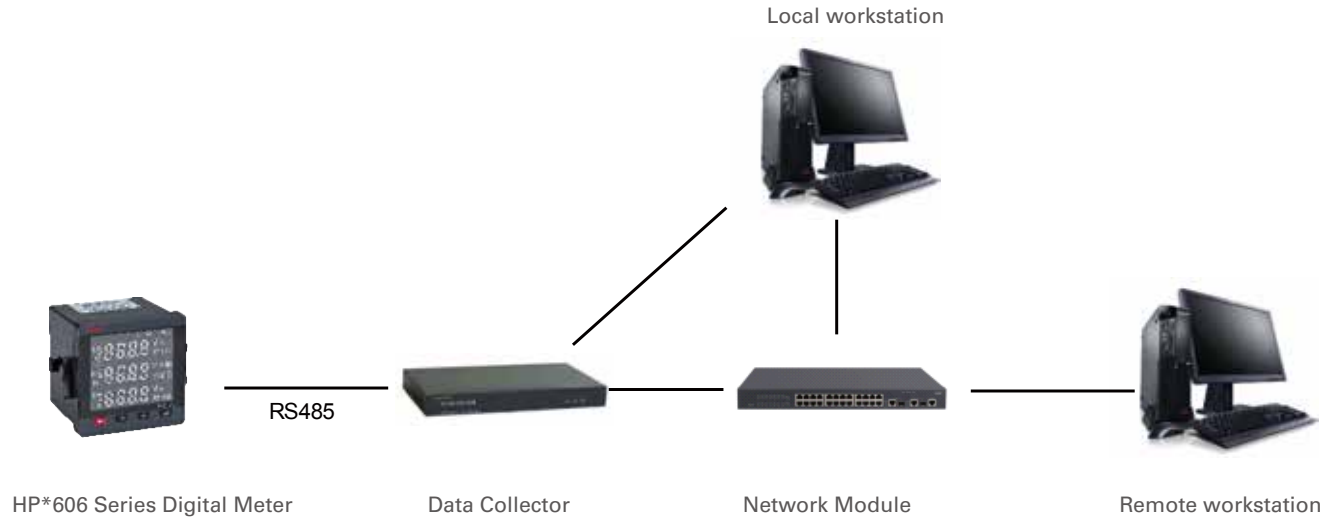
Ambient temperature	Allowed ambient temperature: -10°C~+45°C ; limited operating temperature: -25°C~+55°C
Environmental humidity	≤ 85%RH
Working environment	No mold and insect, no salt spray, no dewing, light dust and sand are allowed, withstand mechanical force of instruments is the basic type, altitude ≤ 2000m.

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Communication Application



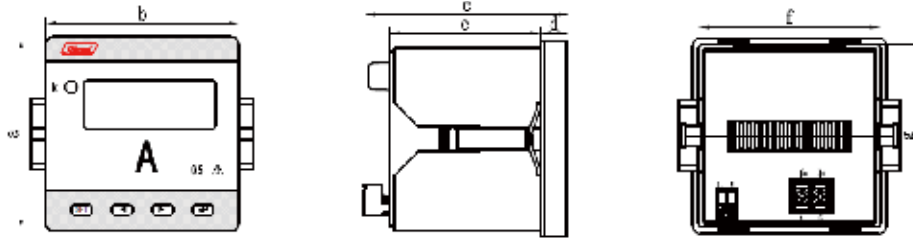
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Product Dimension

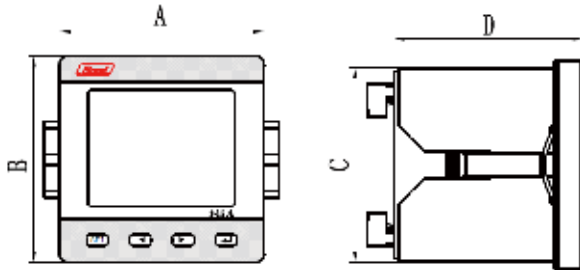
·Single-phase Amperemeter / Voltmeter Dimension



Unit: mm

Model	Dimension							Mounting hole size	
	a	b	c	d	e	f	g		
72	72	72	100.5	13.5	74.5	66	66	67	67
96	96	96	100.5	13.5	74.5	90.5	90.5	92	92
48	48	96	100.5	13.5	74.5	90.5	43.5	45	92

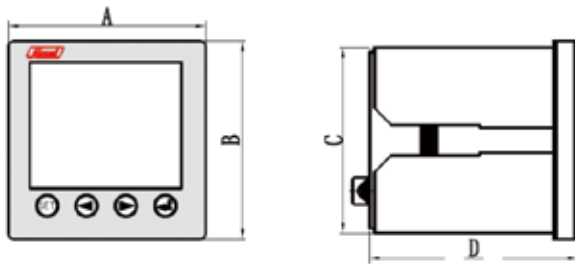
Three-phase Amperemeter / Voltmeter Dimension



Unit: mm

Model	Dimension				Mounting hole size
	A	B	C	D	
72	72	72	66	88	67*67
96	96	96	90.5	88	92*92

·Three-phase Combination / Multifunction Meter Dimension



Unit: mm

Model	Dimension				Mounting hole size
	A	B	C	D	
72	72	72	66	88	67*67
96	96	96	90.5	88	92*92

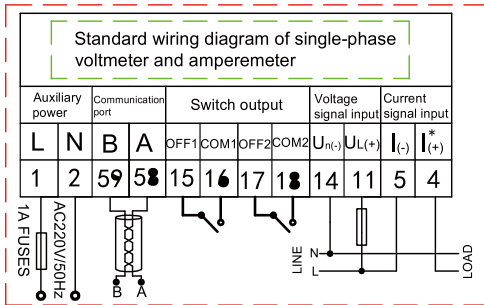
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HP606 Digital Panel Meters

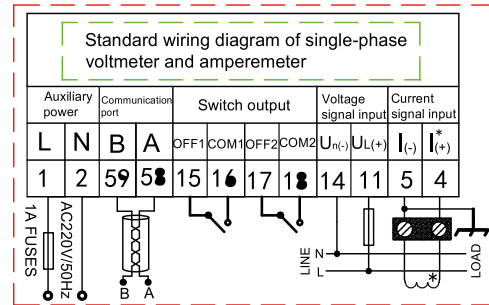
Standard: IEC60051

Wiring Diagram for Terminal Block

Single-phase Amperemeter / Voltmeter

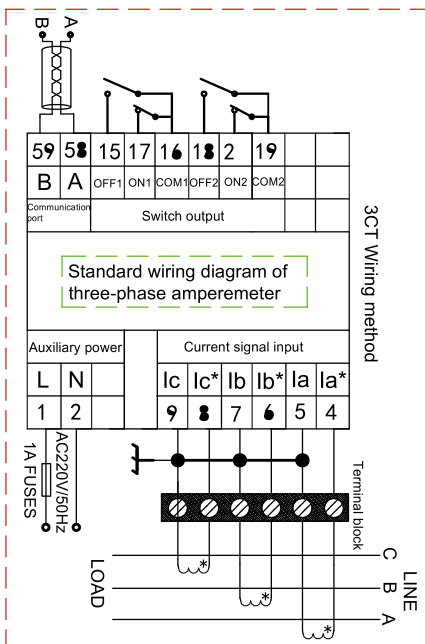


Direct Connection

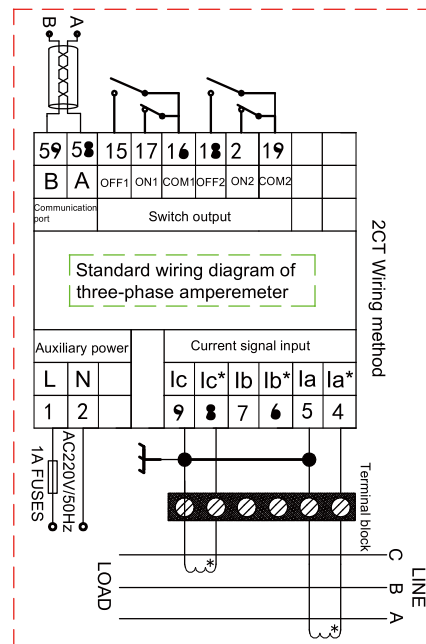


External transformer connection

Three-phase Amperemeter



Three-phase three-wire



Three-phase four-wire

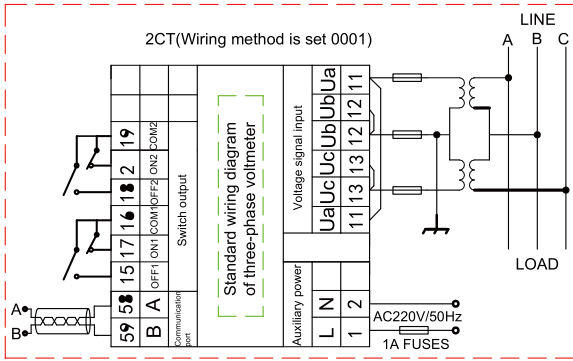
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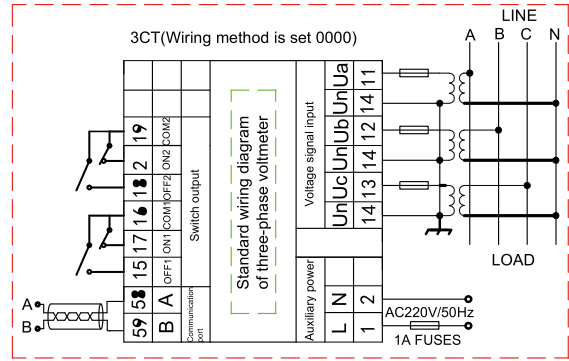
Standard: IEC60051

Wiring Diagram for Terminal Block

Three-phase Voltmeter

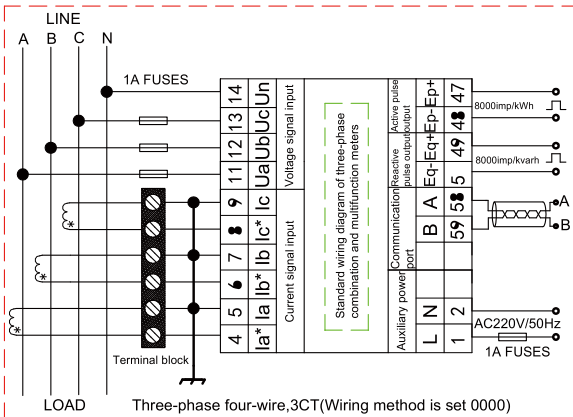


Three-phase three-wire

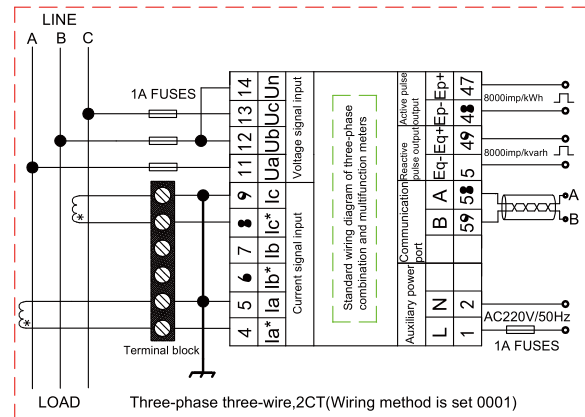


Three-phase four-wire

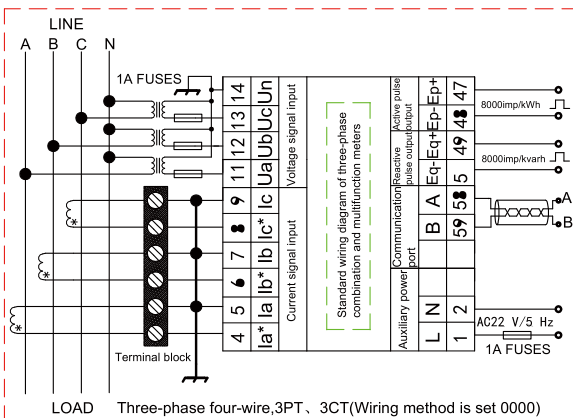
Three-phase Combination and Multifunction meters



Direct Connection



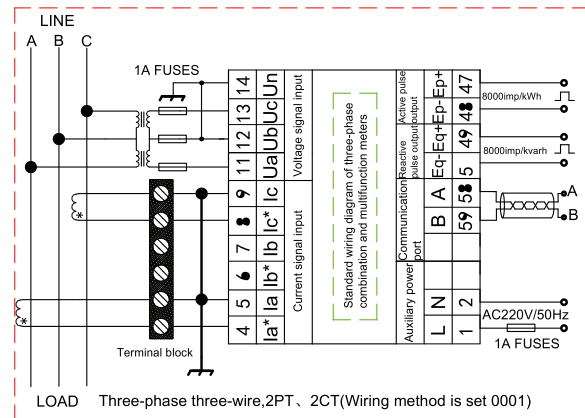
Direct Connection



External voltage

transformer connection

Three-phase three-wire



External voltage

transformer connection

Three-phase four-wire



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