



HP606 Digital Power Meter

Reliable made affordable





About Himel

Himel is a multinational manufacturer and provider of electrical products successfully combining global expertise with local knowledge.

Founded by a Spanish entrepreneur in 1958, the company pioneered in exporting quality electrical enclosures, establishing Himel brand globally. Today, our global footprint and technology enable us to provide the best combination of affordable and reliable offers for Low Voltage Power distribution, Industry Automation and Home Electric to our long-term customers and partners in over 50 countries where we are present.

Himel. Reliable made affordable



HP606 Series Digital Display Electric Measuring Instrument

Standard: IEC 60068-2, IEC 61010-1, IEC 60529, IEC 61000-4, and IEC 61557-1

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

Product Name	Input mode	Panel dimension	Meter structure	Display mode	Range
HP*606	L	72	P	1	□
HPA 606: HPA 606 Amperemeter	L: AC	72: 72×72 mm	P: Programmable Display Instrument	1: One-row LED display	Y: 100V O: 600V
HPZ 606: HPZ 606 Voltmeter		96: 96×96 mm	K: DO	4: Three-row LED display	5A: Secondary 5A
HPD 606: HPD 606 Combination meter		48: 96×48 mm (only for single-phase meter)	T: RS485 S: DO+RS485	3Y: Three-phase LCD display (only for multifunction meter)	1A: Secondary 1A O5A: 600V5A O1A: 600V1A Y5A: 100V5A Y1A: 100V1A
HPDM 606: HPDM 606 Multifunction meter					(Special type can be customized)

Product 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, Telemetering, 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
- √ Telemetering: remote parameters adjustment
- √ Remote regulating: remote parameters metering

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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	Photocoupler Isolation of passive dry contact	
	Switch output	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, reactive power, power factor	Class 0.5	
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℃ ~ +45℃; limited operating temperature: -25℃ ~ +55℃
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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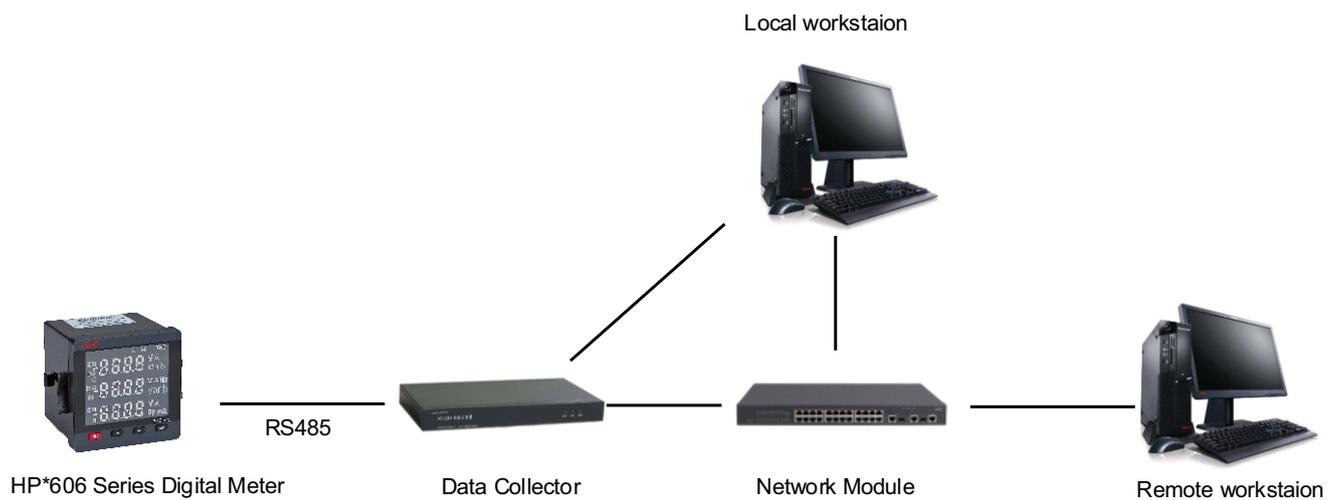
Standard: IEC 60068-2, IEC 61010-1, IEC 60529, IEC 61000-4, and IEC 61557-1

Guideline for meter function selector

Function Item	DO	RS485	One-row LED display	Three-row LED display	Single-phase LCD display	Three-phase LCD display
48 type - single phase voltmeter/ammeter	√	√	√	-	-	-
72/96 type - single phase voltmeter/ammeter	√	√	√	-	-	-
72/96 type - three-phase voltmeter/ammeter	√	√	-	√	-	-
72/96 type - three-phase combination/ multi-function meter		√	-	√	-	√

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

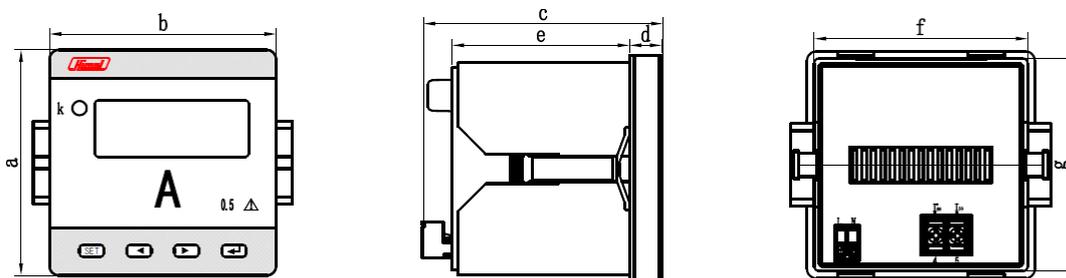
Communication Application



HP606 Series Digital Display Electric Measuring Instrument

Product Dimension

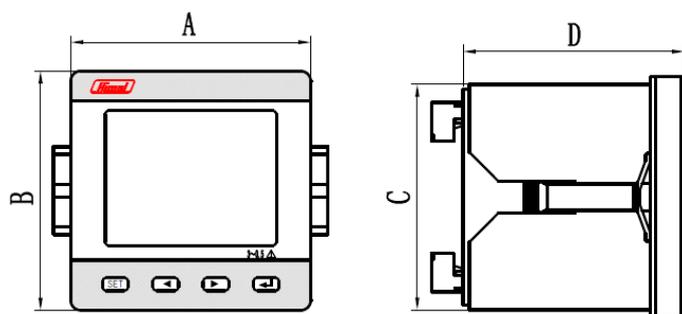
Single-phase Amperemeter / Voltmeter Dimension



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

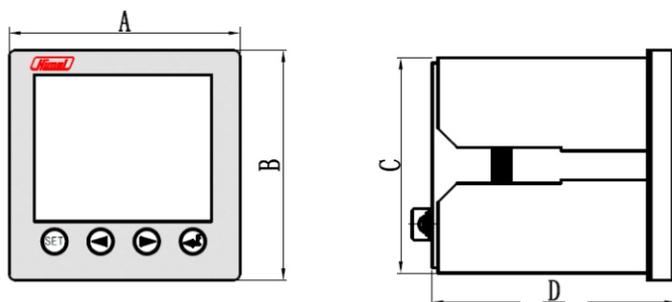
Three-phase Amperemeter / Voltmeter Dimension



Unit: mm

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

Three-phase Combination / Multifunction Meter Dimension



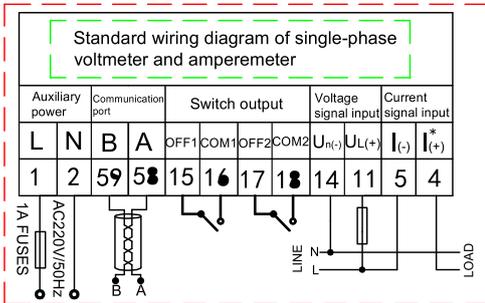
Unit: mm

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

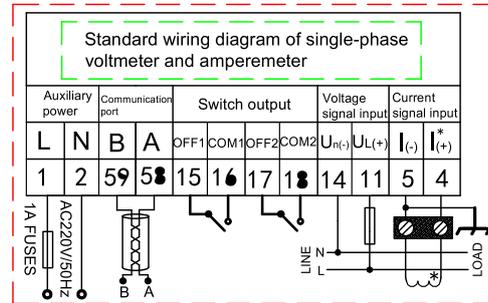
HP606 Series Digital Display Electric Measuring Instrument

Wiring Diagram for Terminal Block

·Single-phase Amperemeter / Voltmeter

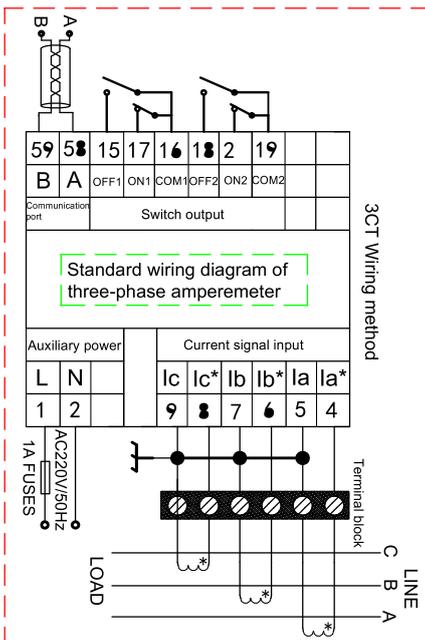


Direct Connection

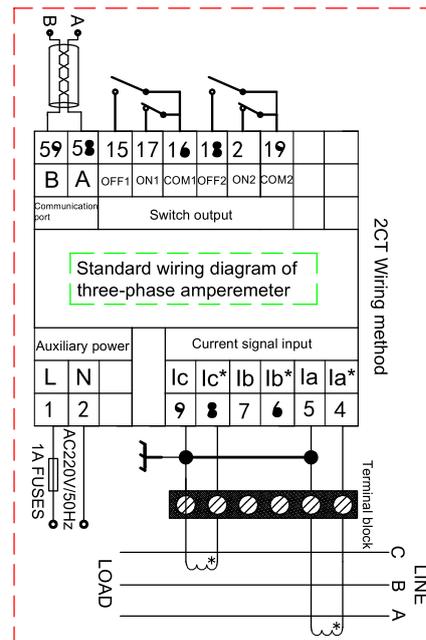


External transformer connection

·Three-phase Amperemeter



Three-phase three-wire

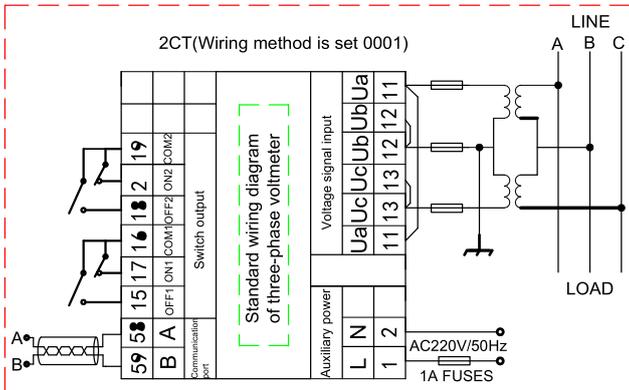


Three-phase four-wire

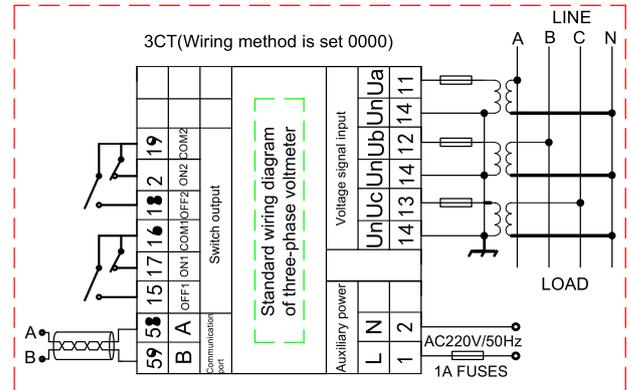
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Wiring Diagram for Terminal Block

.Three-phase Voltmeter

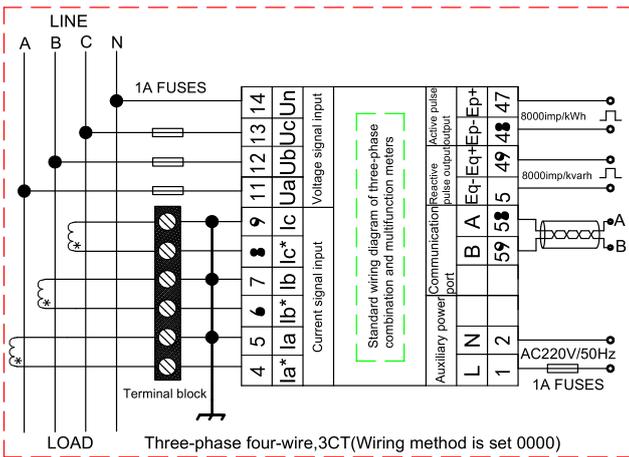


Three-phase three-wire

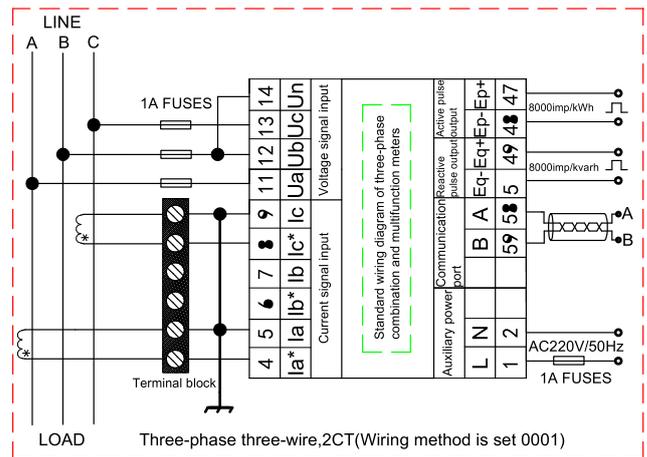


Three-phase four-wire

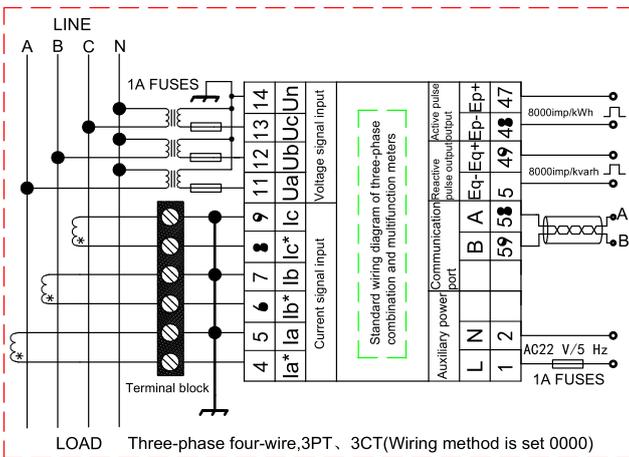
Three-phase Combination and Multifunction meters



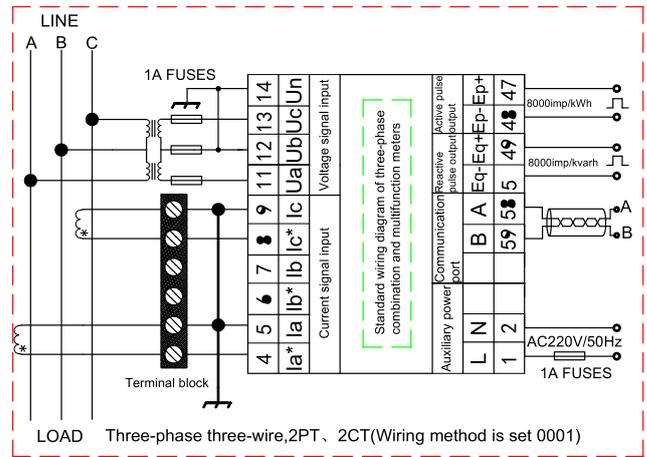
Direct Connection



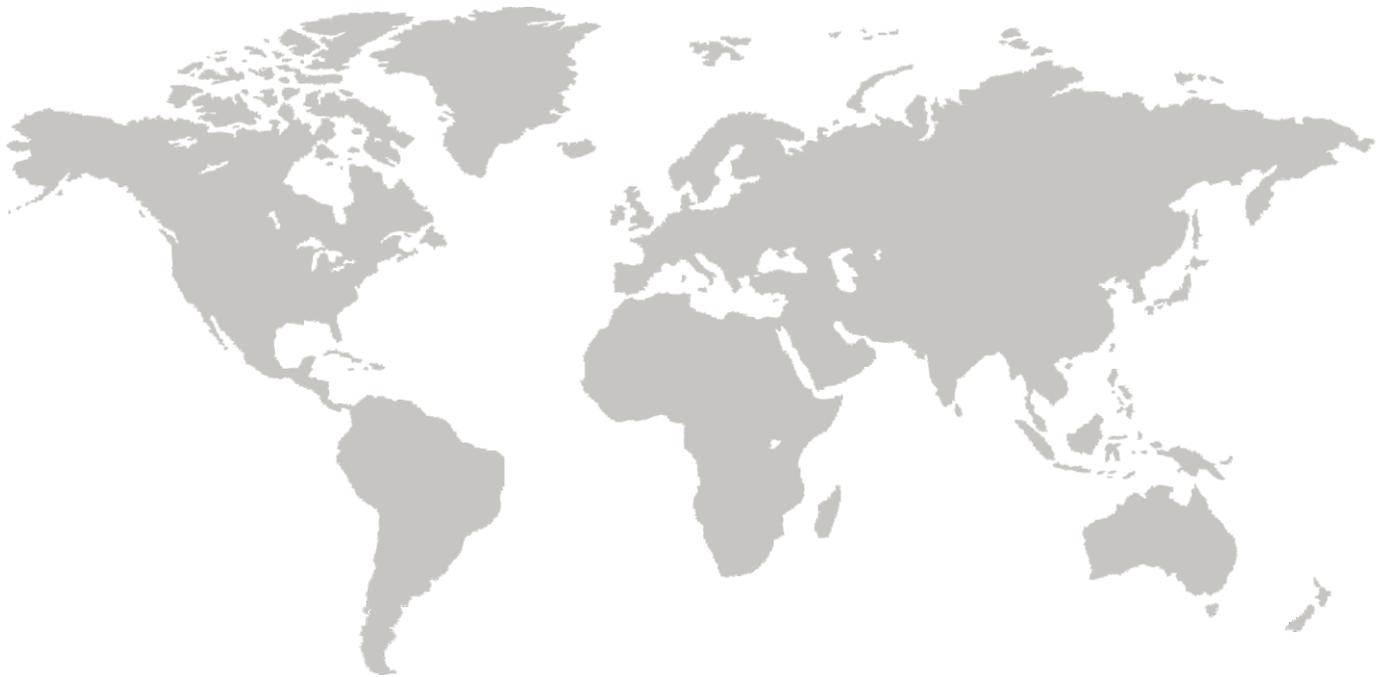
Direct Connection



External voltage transformer connection
Three-phase three-wire



External voltage transformer connection
Three-phase four-wire



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