

DENKI Multifunction meter



Feature
•Measure three phase voltage, three phase current, active power, reactive power, apparent power, power factor and frequency with high-precision.
•Measure forward and reverse active/reactive energy.
•Measure and timing read time of use energy.
•Measure total harmonic distortion (THD) and 2-31times odd harmonic components of three phase voltage and three phase current.
•Provide LED or LCD display and local data query.
•Visual menus, buttons easy to operate.
•Programmable current and voltage transformation ratio.
•Provide multiloop leakage current monitoring
•Provide multiloop control nodes for alarm and trip control
•Support the fire alarm and control to cut off power supply of failure point remotely
•Support RS-485 communications and Modbus-RTU protocol.
•Supportdigital input, digital output, analog transmission output and energy pulse output.
•Easy installation, simple wiring, small quantities.
•Wide range of AC/DC universal power supply: AC / DC 80V~270V
•Can complete a variety of communication software network in SCADA and PLC.

Technical Index

Accuracy Measurement	
current	class 0.5
Voltage	class 0.5
active power	class 0.5
reactive power	class 0.5
power factor	class 0.5
frequency	±0.02Hz
active Energy	class 0.5/class 0.2
reactive Energy	class 1.0/class 2.0
Input Measurement	
Wiring	single-phase,3-phase 3-wire,3-phase 4-wire
Rated current	AC 1A,AC 5A
Rated voltage	AC 57.7V,AC 100V,AC 220V,AC 380V
Overload	Voltage:Sustained:1.2times;Instantaneous:2times/1s
	Current:Sustained: 1.2 times; Instantaneous: 10 times/ 5s
Power consumption	Voltage: <1VA (per phase),Current: <0.4VA (per phase)
Impedance	Voltage: >300KΩ , Current: <20mΩ
Frequency	45~65Hz
Power supply	
Working range	AC/DC 80V~270V
Power consumption	<4VA
Functional Module	

Communication interface	1 loop RS-485 Communication, MODBUS-RTU protocol
	Baud rate: 2400 ~ 19200bps, Default: 2400bps
Switching value input	4 loops switching value input, dry joint
Switching value output	3 loops relay output, capability: AC 250V/5A,DC 30V/5A
Transmission output	1 loops analog output: 0/4~20 mA or 0~5/10 V
Energy pulse output	2 loops energy pulse output, constant: 8000
Environment	
Operational environment	-10°C~+55°C
Storage environment	-25°C~ +70°C
Relative humidity	≤93 %,in the place without corrosive gas
Height above sea level	≤2500m
Safety	
Insulation resistance	> 100MΩ
AC withstand voltage	AC 2KV
Electro Magnetic Compatibility	
Electro-Static discharge	class 4
Electrical Fast Transient pulse train	class 4
Electrical surge	class 4
Outline Dimension	
External Dimension(mm)	120×120;80×80;96×48;96×96;72×72;48×48;120×60;160×80
Cutout Dimension(mm)	111×111;76×76;92×45;92×92;68×68;45×45;114×56;152×76