

ACR10R meter and mA output CT

The product portfolio includes 1 electric meter and 3 CTs, suitable for STH 4-12K hybrid inverters and STT 4-125K stand-alone anti-backflow system.



General Data	Model of Meter	Rated Current	Aperture	Supplier
STT 4-25KTL Default STH 4-12KTL-HT Default	ACR10R-T16D80	80A	D=16mm	Sunways
STT 50-75KTL Default	ACR10R-T24D200	200A	D=24mm	Sunways
STT 100-125KTL Default	ACR10R-T36D300	300A	D=36mm	Sunways
STT 100-125KTL Optional STH 4-12KTL-HT Multi Units Optional	ACR10R-R110D1K	1000A	D=110mm	Sunways

TECHNICAL PARAMETERS

		Value	
Input	Net Work	3-phase 3-wire, 3-phase 4 wire	
	Frequency	45 ~ 65Hz	
	Voltage	Rating: 220V/380V (400V)	
		Overload: 1.2-fold rating(continuous); 2-fold rating/1second	
	Current	Consumption: < 0.2VA	
		Rating: 80A, 200A, 300A, 1000A	
Overload: 1.2-fold rating (continuous); 10-fold rating/1 second			
Output	Electric Energy	Consumption: < 0.2VA	
		Output mode: Open-collector photocoupler pulse, two way output	
	Communication	Three-phase	Pulse constant: 4000、8000imp/kWh
	Display Mode	RS485 interface, Modbus-RTU Protocol	
Measuring Accuracy		LCD	
Power Supply		Frequency 0.05Hz、 reactive electric energy 1 class、 other 0.5 class	
Safety		AC85 ~ 265V Consumption ≤ 10VA	
Safety	Power-frequency withstand Voltage	Power frequency withstand voltage between Auxiliary power and switch volume output and current input and voltage input and communication and pulse output and switch volume input terminal is AC 2kV/1min; Power frequency withstand voltage between auxiliary power and switch volume output and current input voltage input terminal is AC 2kV/1min; Power frequency withstand voltage between communication and pulse output and switch volume input terminal is AC 1kV/1min;	
	Insulation Resistance	Input, Output terminal to housing > 100MΩ	
Environment		Working temperature: -10°C ~ +55°C ; Storage temperature: -20°C ~ +70°C Relative humidity: 5% ~ 95% No condensation; Altitude: ≤ 2500m	

mA Output CT

The product portfolio includes 1 CT, suitable for STS 1-6K stand-alone anti-backflow system.



Default Configuration	Model of Meter	Rated Current	Aperture	Supplier
STS 1-6K Default	T10D90	90A	D=10mm	Sunways
Optional	T16D120	120A	D=16mm	Sunways
Optional	T24D200	200A	D=24mm	Sunways

Data logger, ACR-DTSD1352-C1(6)A electric meter and 5A output CT



The product portfolio includes 1 data logger, 1 electric meter and 1 or 3 CTs, which are suitable for multi-machine anti-backflow systems or power station projects to measure the total PV power generation.

Product Name	Model/Specification	Supplier
Datalogger	ST logger 1000	Sunways
Meter	ACR-DTSD1352-C1(6)A	Sunways
CT	***A / 5A	Customer*

The CT ratio $***/5$ should be based on actual conditions. The CT can be purchased from Sunways or other third parties. If customer wants to buy CT from sunways, please contact Sunways. If any customers want to purchase CT from local, they should select CT with a precision grade of 0.5 or above.





DATA LOGGER TECHNICAL PARAMETERS

General Data		Environmental Data	
Max. No. of Inverters	90 (30/RS485 Port)	Operating Temperature (°C)	-10~+60
Preference Setting	Remote Web、APP	Operating Humidity	0%-90% relative humidity, no condensation
Firmware Upgrade	Wireless upgrade	Operating Altitude (m)	≤ 4000m
Working Voltage	DC 12V	Storage Temperature (°C)	-40~+85
Power Consumption	< 10W	Storage Humidity	< 40%
		Protection Degree	IP20
Interface Specification			
RS485 Interface	4 ports (3 ports for inverters connection, 1 port for other devices connection), Baud 9600bps (Adjustable from 1200-57600 bps)		
Ethernet Interface	1 port, 10/100Mbps Self-adaptive		
Wireless Interface	WiFi/GPRS Alternative		
Output Dry Contact	Two independent dry contacts, 230V/1A		
Other Interface	CAN/USB/SD/SIM		
Wireless Data			
WiFi Transmitting Power	802.11b: +16 +/-2dBm (@11Mbps)、802.11g: +14 +/-2dBm (@54Mbps)、802.11n: +13 +/-2dBm (@HT20, MCS7)		
WiFi Receiving Sensitivity	802.11b: -87 dBm (@11Mbps, CCK)、802.11g: -73 dBm (@54Mbps, OFDM)、802.11n: -71 dBm (@HT20, MCS7)		
WiFi Operating Frequency	2.412GHz-2.484GHz		
Communication Distance	100M (without obstacles)		

METER TECHNICAL PARAMETERS

Specification		3 phase 3 wires, 3 phase 4 wires
Voltage	Reference Voltage	3×100V、3×380V、3×57.7/100V、3×220/380V
	Consumption	< 10VA (Single phase)
	Impedance	> 2MΩ
	Accuracy Class	Error±0.2%
Current	Input Current	3×1(6)A (Outlay transformer)
	Consumption	< 1VA (Single phase rated current)
	Accuracy Class	Error±0.2%
Power		Active, reactive, apparent power, error±0.5 %
Frequency		45 ~ 65Hz, Error±0.2%
Temperature		-40°C~ 99°C
Energy		Active energy (Accuracy class:0.5, 1), reactive energy (Accuracy class 2)
Clock		≤ 0.5s/d
Energy Pulse Output		1 active optocoupler output, 1 reactive optocoupler output
Width of Pulse		80±20ms
Pulse Constant		6400imp/kWh, 400imp/kWh (Correspond with the basic current)
Interface and Communication		RS485: Modbus RTU
Range of Communication Address		Modbus RTU:1~ 247;
Baud Rate		1200bps~19200bps
Relative Temperature		-25°C ~+55°C
Relative Humidity		≤ 95 % (No condensation)

5A Output CT

			
<p>Closed-mouth CT, square hole and round hole combination, can pass through the cable, also can pass through the copper.</p>	<p>Closed-mouth CT, square hole, copper bar installation, suitable for distribution cabinet bus bar installation.</p>	<p>Open-mouth CT is suitable for renovation projects without dismantling existing cables or busbars.</p>	