

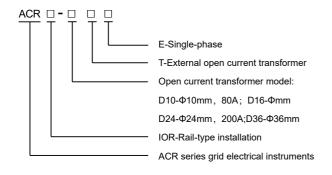
ACR10R



General

The rail-type multifunction electrical instrument with external Rogowski coil and split-core current transformer is applicable for the energy-saving reconstruction project in high energy consumption industries including the smelting, iron and steel, welding and semi-conductor industry. It is also suitable for applications such as the power monitoring of grid-connected cabinet for distributed photovoltaic power cabinet and energy demand management. It boasts of no need of bus removal, easy connection and safe construction, saving reconstruction cost and raising efficiency for the user. It integrates the measurements of all electric parameters (including single-phase or three-phase current, voltage, active power, reactive power, apparent power, frequency and power factor) and comprehensive energy monitoring and examination management. Meanwhile, it also has various peripheral interfaces for the user to choose: the RS485 communication interface with MODBUS-RTU protocol can meet the need of online communication management; the interfaces with switch input and relay output can realize the remote signalling and remote control of the circuit breaker switch. It is very suitable for real-time power monitoring system with an LCD display and the panel buttons to realize the setting and control of parameters.

Model Description



Function

Function	Model	ACR10R-DxxTE
Measurement Parameters	Single-phase current	•
	Single-phase voltage	•
	Single-phase (active power, reactive power, power factor)	•
	Three-phase (active energy, reactive energy)	•

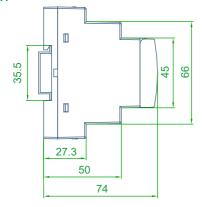
Note:1."•"refers to standard function, the standard configuration for above instruments is 1 channel RS485 communication.

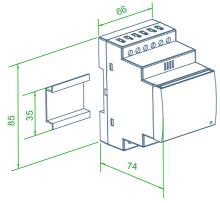
Technical parameter

Technical parameters		Indicators
Input	Grid	Single-phase,
	Frequency	45∼65Hz
	Voltage	Rated voltage: AC 100V, 400V
		Overload: 1.2 times the rated voltage(continuous);
		2 times the rated voltage lasting for 1 second
		Power consumption: less then 0.2VA
	Current	Rated current: 10A, 20A, 40A, 80A, 120A,
		200A etc. (for details see product specifications)
		Overload: 1.2 times the rated current(continuous);
		10 times the rated current lasting for 1 second
		Power consumption: less then 0.2VA
Output	Communication	RS485 interface, Modbus-RTU
	Display	LCD
Measurement precision		Voltage: 0.2 level, current, power Active energy:
		0.5 level,0.01Hz frequency, Reactive energy: 1 level
Power supply		AC85 \sim 265V or DC100 \sim 350V; power consumption
		≤10VA
	Power frequency withstand voltage	AC2kV 1 min between power supply // current input//
Safety		voltage input and communication
		AC2kV 1 min between each pair of combinations
		among power supply, urrent input and voltage input.
	Insulating resistor	Input,output terminal to housing >100M Ω
Environment		Working temperature: -10 ℃ ~+55 ℃;
		storage temperature: -20 $^{\circ}\!$
		Relative humidity:5% $\sim\!95\%,\ $ non-condensing;
		altitude:≤2500m

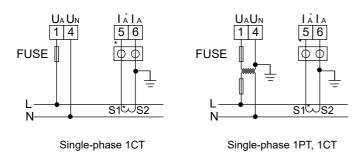


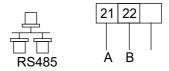
Dimension





Wiring





RS485 communication

Operation

The five buttons of the instrument are FN button, SET button,,,Enter button from left to right.

FN button	FN button RS485 interface, Modbus-RTU	
SET button	In the measurement mode, press this button to enter the	
	programming mode. The instrument will indicate entering	
	password. When the correct password is entered, you can	
	set the programming for the instrument; in the programming	
	mode, use it to return to the previous menu	
	In the measurement mode, it is used to switch display items;	
	In the programming mode, it is used to switch menus of the	
	same level or reduce the units.	
	In the measurement mode, it can be used to see relevant	
•	parameters. For details, see the display menu;In the	
	programming mode, it is used to switch menus of the same	
	level or increase the units.	
	In the programming mode, it is used to confirm the items	
Enter button	selected form the menu and the modification of parameters.	
hutton i Enter hutton	In the programming mode, the combination is used to	
button+Enter button	reduce hundreds	
button+Enter button	In the programming mode, the combination is used to	
button+Enter button	increase hundreds	

Operation

