

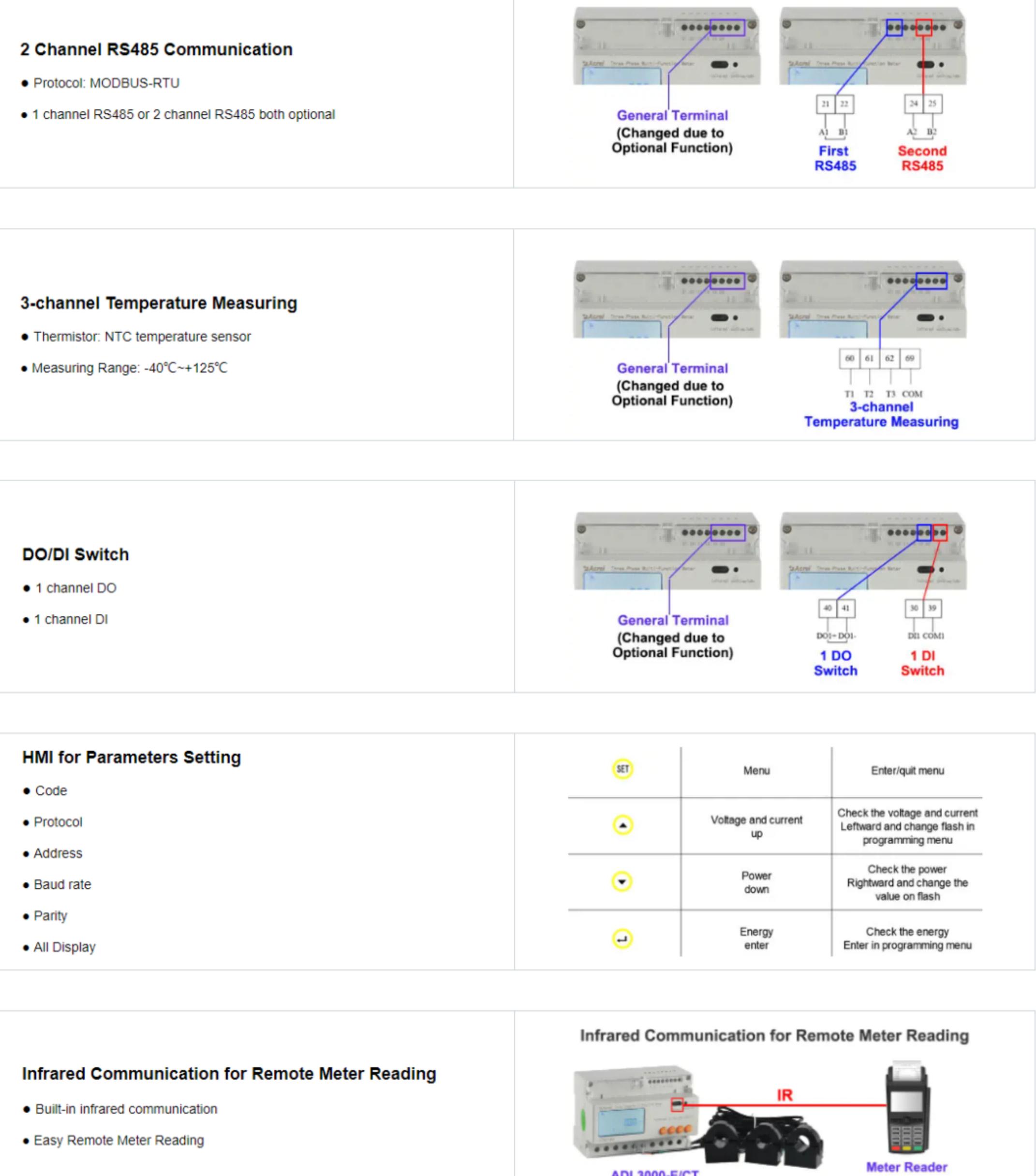
<b>3-phase</b>	<b>Multi-function</b>
<b>External CTs</b>	<b>MODBUS-RTU</b>

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**ADL3000-E/CT Three-phase Multi-function DIN Rail Energy Meter (with External CTs)**

- **Measurement:** 3-phase kWh (0.5S), Active Power, Reactive Power, Current, Voltage, Harmonic and etc
- **Voltage Rating:** 3x220/380V, 3x57.7/100V (3P4W), 3x380V, 3x100V (3P3W)
- **Current Rating:** 3x1(100)A; 3x1(6)A
- **Frequency:** 45-65Hz
- **Communication:** RS485 (MODBUS-RTU) and Infrared
- **Multi-rate:** Spike, Peak, Valley and Flat kWh
- **Extra Function:** Cable Temperature Measurement and DO/DI
- **Display:** LCD (8 digits)
- **Dimension:** 127\*88\*70mm (L\*W\*H)
- **Wiring:** 3-phase 4wire; 3-phase 3-wire
- **Installation:** 35mm DIN Rail
- **Standard&Certificate:** IEC, CE, EAC

## Features



Diverse Electricity Parameters Measurement		ADL3000-E/CT Multifunction Meter with External CTs	
• Harmonic (2-31st voltage&current)--Optional			
• F (Frequency)			
• U (3-phase Voltage)			
• I (3-phase Current)			
• kWh (3-phase positive Kilowatt-hours)			
• kVarh (Kilovar-hours)			
• P (Power)			
• Q (Reactive power)			
• S (Apparent power)			
• PF (Power factor)			

Multi-rate/Flexible Tariff		ADL3000-E/CT Multifunction Meter with External CTs	
• 4 Time zone			
• 4 Tariff rate (Spike, Peak, Flat, Valley)			
• 2 Time period list			
• 14 Time period by day			
• Data Frozen (last 48 months or last 90 days)			
• Max demand and occurrence time			

Infrared Communication for Remote Meter Reading		Infrared Communication for Remote Meter Reading	
• Built-in infrared communication			
• Easy Remote Meter Reading			

Wiring Instruction	
First connection with 3-phase load line via external CTs of ADL3000-E/CT (3-phase 4-wire)	
Second connection with CTs' lines already on site via external CTs of ADL3000-E/CT (3-phase 4-wire)	

Installation Instruction	

Typical Connection	

1.Function description	
Function	Function description
	Active kWh (positive and negative)
Measurement of kWh	Reactive kWh (positive and negative)
	A, B, C phase positive active kWh
Measurement of electrical parameters	U, I, P, Q, S, PF, F
Measurement of	2-31ST Voltage and current harmonic
LCD Display	8 bits section LCD display, background light
Key programming	4 keys to communication and set parameters
Pulse output	Active pulse output
	Reactive pulse output
	Clock pulse output
Pulse output	Active pulse output
	Reactive pulse output
	Clock pulse output
Multi-tariff and functions	Active switch input
	Switch output
	Adapt 4 time zones, 2 time interval lists, 14 time interval by day and 4 tariff rates
	Max demanded kWh and time happened
	Frozen data on last 48 months, last 90days
	Date, time
HMI for Parameters Setting	Infrared communication
Communication	The first communication path: Communication interface: RS485, Communication protocol: MODBUS-RTU
	The second communication path: Communication interface: RS485, Communication protocol: MODBUS-RTU
Temperature measurement	Support 3 outlet NTC temperature
	IR
	Meter Reader

2.Technical parameter	
Specification	3 phase 3 wires, 3 phase 4 wires
Voltage	Reference voltage 3x100V, 3x380V, 3x57.7/100V, 3x220/380V
	Consumption <1VA(Single phase)
	Impedance >2MΩ
	Accuracy class Error±0.2%
Current	Input current 3x1(6)A (second connection with CTs' cable already on site via external CTs of ADL3000-E/CT) 3x10(100)A (first connection with 3-phase load line via external CTs of ADL3000-E/CT)
	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
Switching output	1 switching output
Switching input	1 optocoupler input
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)
Infrared Communication for Remote Meter Reading	Infrared Communication for Remote Meter Reading
	IR
	Meter Reader

Note: Price below Only for Reference, Contact us for your Best Quotation !!!

"■" means standard, "□" means optional.

Shape Function FOB Shanghai (USB) Option Module Price(USD) Option

ADL10-E 1P single phase electric energy meter,U I P Q S PF,10(60)A, single total active energy measure. 25 I/C: RS485(Modbus-RTU) 9 /

ADL100-ET 2P single phase multi-function energy meter, U I P Q S PF,10(60)A, single total active energy measure supporting infrared communication. 50 I/C: RS485(Modbus-RTU) 9 At will I/F: multi tariff energies 9

ADL200 Single phase kWh meter, Measurement of U, I, P, Q, S, PF, F and total active energy, 10 (80) A, Accuracy: active energy: class 0.5s, reactive energy: class 1 45 I/C: RS485(Modbus-RTU) 9 /

I/F: Multi tariff 9 /

ADL400 Three phase kWh meter, Measurement of U, I, P, Q, S, PF, F and harmonic, 3x1(6)A,3x10(80)A, split-phase forward active energy calculation, total forward and reverse active or reactive energy calculation,2-31st harmonic, supporting infrared communication,3 split transformers spec: 5A 1.25mA. 67 I/C: RS485(Modbus-RTU) 9 At will I/F: RS485(Modbus-RTU) 9 /

I/F: Multi tariff energies 9 /

I/K: 1D1/1DO 5 K,2C, T can only one

ADL3000-E 7P three phase multi-function energy meter, U I P Q S PF,3x1(6)A or 3x10(80)A, split-phase forward active energy calculation, total forward and reverse active or reactive energy calculation,2-31st harmonic, supporting infrared communication. 100 I/C: RS485(Modbus-RTU) 9 /

I/F: multi tariff energies 9 /

I/K: 1D1/1DO 5 K,2C, T can only one

I/C: the second route RS485(Modbus-RTU) 5 K,2C, T can only one

I/T: three channels temperature measurement(NTC) 9 K,2C, T can only one

I/H: 2-31st harmonic 6 K,2C, T can only one

ADL3000-E/CT (3 split transformers included) 7P three phase multi-function energy meter, U I P Q S PF,3x1(6)A or 3x10(80)A, split-phase forward active energy calculation, total forward and reverse active or reactive energy calculation,2-31st harmonic, supporting infrared communication,3 split transformers spec: 5A 1.25mA. 145 I/C: RS485(Modbus-RTU) 9 K,2C, T can only one

I/F: multi tariff energies 9 /

I/K: 1D1/1DO 5 K,2C, T can only one

I/C: the second route RS485(Modbus-RTU) 5 K,2C, T can only one

I/T: three channels temperature measurement(NTC) 9 K,2C, T can only one