

# ADL400



### General

ADL400 three phase electric meter is designed for three phase energy measurement on low voltage system. The meter meet the related technical requirements of electronic meter in the IEC62053-21, IEC62053-22 standards.

## **Functions**

Function	Description	Provide
Measurement of kWh	kWh (positive and negative)	■
	kvarh (positive and negative)	•
	A, B, C phase positive kWh	
Measurement of electrical parameters	$U_{\nu} \ IP_{\nu} \ Q_{\nu} \ S_{\nu} \ PF_{\nu} \ Hz$	•
Measurement of harmonics	2~31ST harmonic	
LCD Display	12 digits	
Key programming	3 keys	•
Pulse output	kWh	•
Data	Maximum demanded	
	Frozen data on last 48 months, last 90days	
	Date, time	
Communication	RS485, MODBUS-RTU	•

Note:(∎: means standard, □:means optional)

## Parameters

#### Electric performance

Voltage	Nominal voltage	3×100V、3×380V、
		3×57.7/100V、 3×220/380V
	Consumption	<10VA(Single phase)
	Impedance	>2MΩ
	Accuracy	±0.2%

Current	Maximum current	80A, 6A
	Consumption	<1VA
	Accuracy	±0.2%
Frequency	range	45∼65Hz
	accuracy	±0.2%
Energy accuracy	Active energy	Class 0.5s
	reactive energy	Class 2
Clock	accuracy	≤0.5s/d
Active Pulse	Width	80±20ms
	constant	1000imp/kWh,10000imp/kWh
Communication -	Interface	RS485
	Protocol	Modbus RTU

#### Working environment

Temperature	Working	<b>-25℃~55℃</b>
	Storing	-40°C~70°C
Humidity	≤95%(No condensation)	
Altitude	<2000m	

# Dimension drawings (Unit: mm)

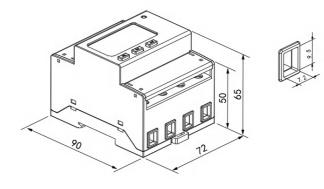


Figure 1 direct connect

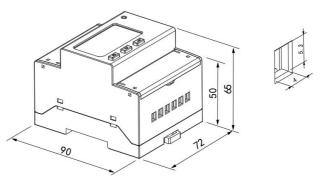


Figure 2 connect via CT

Note : The torque of direct connect should not be greater than 4.0N·m, and the torque of connect via CT should not be greater than  $2.0N\cdot m_{\circ}$ 

## ADL400



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# Wiring and installing

Wiring

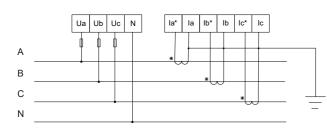


Fig 3 Three phase four lines connect via CT

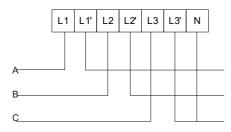


Fig 4 Three phase four lines direct connect

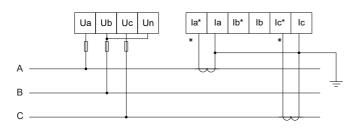


Fig 5 Three phase three lines connect via CT

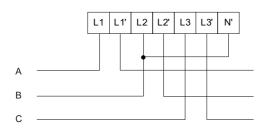


Fig6 Three phase three lines direct connect

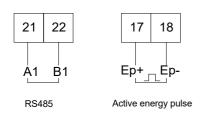


Fig 7 Communication, pulse connection

#### Installing



ADL400 installing

Note: DIN 35 mm rail installation.

#### **Display examples**



Total active energy



Voltage of three phase



Current of three phase



power

Installation and operation instruction