ADL100-ET



General

ADL100-ET single phase electric meter is designed for single phase active energy measurement on low voltage system.The meter meet the related technical requirements of electronic power meter in the IEC62053-21、IEC62053-22 standards.

Functions

Function	Description	Provide
Measurement of kWh	Single-phase active kWh (positive and negative)	■
Measurement of electrical parameters	U、I、P、Q、S、PF、Hz	■
LCD Display	8 digits	■
Key	3 keys	■
Pulse output	Active energy pulse output	■
Communication	RS485, MODBUS-RTU	□ C
	Infrared	■

(■: means standard, □:means optional)

Parameters

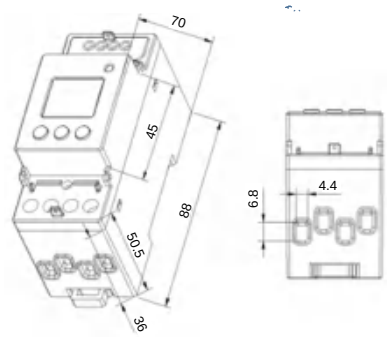
■ Electric performance

voltage	Nominal voltage	AC 220V
	Nominal frequency	50/60Hz
	consumption	<10VA
Current	Maximum current	60A
	Starting current	0.04A
Measurement performance	Consumption	<4VA (Maximum current)
	Accuracy	Class 1
Clock	Range	0~999999.99kWh
Active Pulse	accuracy	Error≤0.5s/d
	width	80±20ms
	constant	1600imp/kWh，LED

■ Working environment

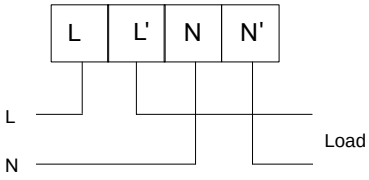
temperature	Working	-25℃~55℃
	Storage	-40℃~70℃
humidity	≤95%(No condensation)	
Altitude	<2000m	

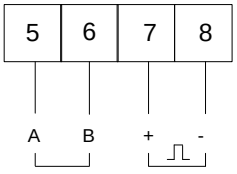
Dimension drawings (Unit: mm)



Note：The torque should not be greater than 2.0N·m

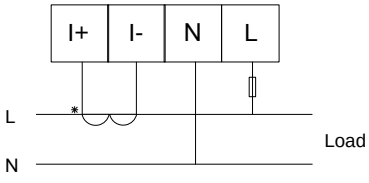
■ Wiring

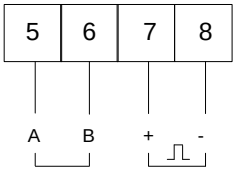




RS485 Active power Pulse

10(60)A specification wiring diagram





RS485 Active power Pulse

20(100)A specification wiring diagram

■ Installing



ADL100-ET installing

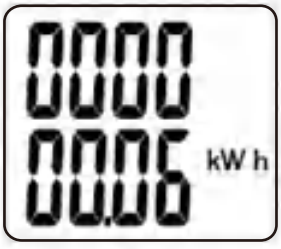
Note：Note：DIN 35 mm rail installation.

Operation and display

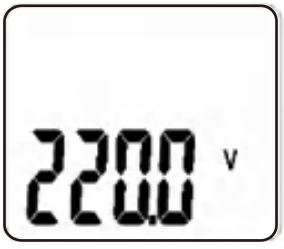
■ Key description

Key icon	Key name	Key function
	Menu	Enter/quit, save
	Up	Flash bit change
	Down	Flash bit right-ward/next page

■ Display examples



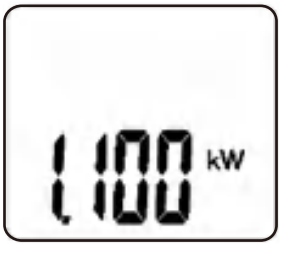
(1) Total active energy



(2) Voltage



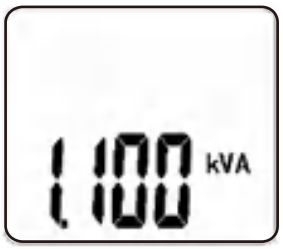
(3) Current



(4) Active power



(5)Reactive power



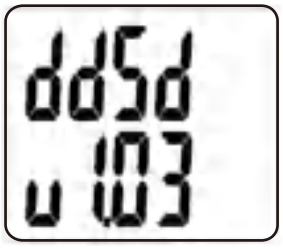
(6) Apparent



(7) Power factor



(8) Frequency



(9) Firmware Version



(10) Date



(11) Time



(12) Spike energy



(13) Peak energy



(14) Flat energy



(15) Valley energy

■ Programming display menu

Press ↵ at any main menu and get in PASS interface, and then press ↵ show P- 0000, and enter the code. If you enter a wrong code, it will show FAIL and back to main menu; and if you enter a right code, you can set the parameter. After setting the parameter, it will show SAVE and save the change by pressing S- YES and quit without save by pressing S- no.

■ Item can be set

Number	Firstly Menu		Secondly menu		
	Symbol	Meaning	Symbol	Meaning	Range
1	CodE	Code	C- 0000	Set code	0000-9999
2	Conn	protocol	_C- nod	Set protocol	Mod-Modbus
3	Addr	modbus	A- 001	Set address (modbus)	1-247
4	bAud	Baud rate	b- 9600	Set baud rate	9600、4800、2400、1200
5	PA rit	Parity method	nonE	Set parity method	None/Even
6	SAVE	Save	S- no	Save page	No/Yes

Note:  is Modbus