

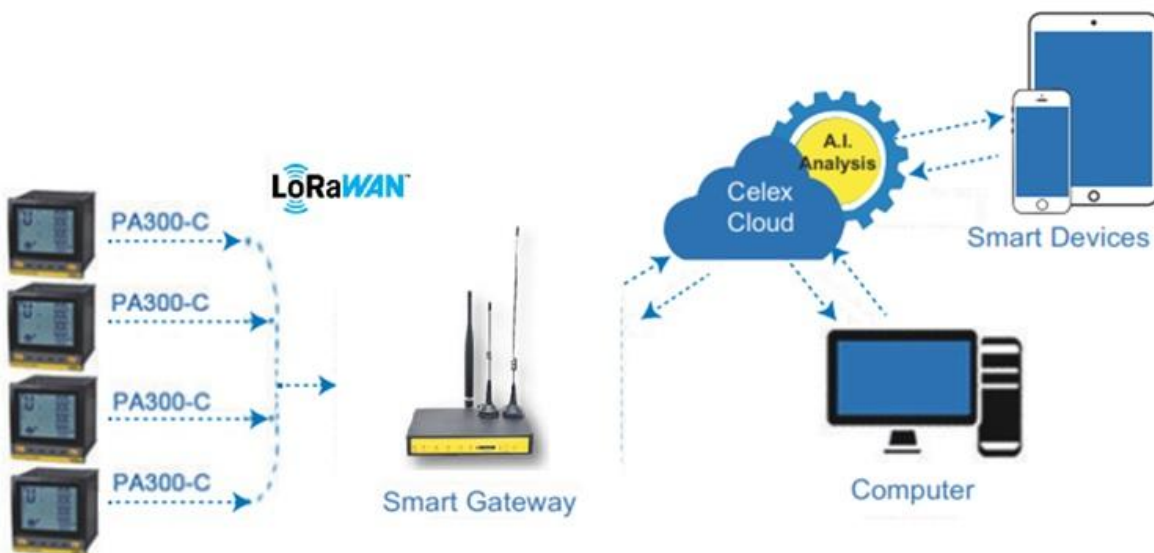


Celex Smart Power Meter PA Series is a multimeter that carry out extended ranges of measuring, monitoring and analysis of various types of electric parameters. Designed with the advanced built-in LoRaWAN wireless transceiver module, the measured power data is collected and uploaded to Celex cloud server for both real-time and historical analysis.

### Measurements:

- Voltage: phase, line and system values
- Current: phase values
- Power: active and reactive phase
- Frequency: of measured voltage value
- Power factor per phase and total
- Total harmonic distortion(THD): analysis voltage and current up to 32 times
- Energy consumption for active and reactive
- Hour counter

### Schematic diagram:



# Smart Power Meter PA Series



## Key Features:

### Real-time Monitoring and Management

- Manage and control what you measure in anytime from anywhere.
- Alarm notification via online software



### Professional and Excellent Accuracy

- Measures up to the 32nd harmonic content
- Measure full range of power parameters

### Rich Connectivities

- LoRaWAN wireless communication
- RS485 communication interface
- Industry standard Modbus communication protocol

### Usability

- Large size LCD front panel,easily and conveniently operated
- Complete programming of system configuration and set up

## Technical Specifications:

Description		Functional Parameters	
Input Measurement Display	Electrical Network	3-phase 4-wire/3-phase 3-wire/single phase network	
	Voltage	Measurement Range	AC 10-480V(L-L)
		Overloading	Continuous:1.2 times Instantaneous:2 times
		Power Consumption	<0.6VA(per phase)
		Impedance	>500k Ohm
		Precision	RMS,Accuracy Level:0.2%
	Current	Measurement Range	AC 0.02-6A
		Overloading	Continuous:1.2 times Instantaneous:2 times
		Power Consumption	<0.4VA(per phase)
		Impedance	<20m Ohm
		Precision	RMS,Accuracy level:0.2%
	Frequency	50-60Hz,accuracy:0.0Hz	
	Power	Active,Reactive,Apparent Power,Accuracy:0.5%	
	Harmonic	Voltage harmonic,current harmonic Accuracy:A grade	
	Electric Energy	Active Energy:Accuracy:0.5S,Reactive Energy:Accuracy:2	
Clock	Clock Error:0.5s/d(Referenced temperature:23 C		
Display	Large Segment LCD Display		

## Technical Specifications:

Power Supply	Working Range	AC/DC 100V~240V
	Power Consumption	<8VA
Output	Communication Interface	1.LoRa Wireless Communication 2.RS485 Interface (when LoRa is not in use) 3.MODBUS-RTU Protocol Compliance (International Standard) 4.Baud Rate:4800,9600,19200 5.Calibration Method:No Parity,Even Parity or Odd Parity
	Pulse Interface	Passive Optocoupler Collector Output
	Switch Input	Passive Dry Junction Input
Environment	Workong Range	-10~55 C
	Storage Condition	-20~75 C
	Operating Humidity	0% ~ 99% RH
Safety	Withstand Voltage	Input>2kV Output>2kV
	Isolation	Input,Output&Power Supply to Casing>50MOhm

## Dimension and Installation:

