F601C(D) Series

Economical Multi-parameter Measurement

DIN-Rail Smart Power Meter



Product Overview

Smart power meter is one of the basic equipments for data collection of smart grid (especially smart distribution grid), which undertakes the tasks of original electric energy data collection, metering and transmission, and is the basis for realizing information integration, analysis and optimization, and information presentation

The F601C(D) is an economical on-line smart meter for use with current transformers. If used with a voltage transformer, it can measure equipment with a voltage of 10 kV or above, and the specific current and voltage measuring range will depend on the type of transformer selected. The product is small in size and high in precision, and can accurately measure electrical energy, current, voltage, power factor and other signals and harmonic distortion, allowing the user to better manage the power consumption, in order to achieve energy saving, improve quality and e仟ciency

Product Advantages

Wide Measuring Range

With different transformers, it covers the vast majority of application conditions

No separate power supply required

The meter directly gets power supply from the voltage inputs

Standard Modbus RTU Interface

Connectable to the host computer for remote data analysis

- Three-phase, three-wire or three-phase, four-wire connections available
- Wide measuring range, with access voltages of conventional 380 V or high voltage 10 kV.
- Fully isolated electrical structure, completely filtering out field disturbances
- Compatible with many different sizes of transformer access
- High measurement precision, accuracy class 0.5
- Standard RS485 Modbus RTU interface also supports DL/T 645
- With voltage total harmonic distortion analysis to analyze power quality

Technical Data

Measuring Range	
Voltage Input	3 × 100V、3 × 380V、3 × 57.7/100V、3 × 220/380V
Current Input	3 × 1(6)A, 3 × 10(80)A
Frequency Range	45 ~ 65 Hz

Output	
Digital Output (Customized)	Modbus RTU (RS485) / DL/T645

Accuracy	
Voltage Accuracy	0.2% (Excluding transformer error)
Current Accuracy	0.2% (Excluding transformer error)
Active Power	0.5%
Active Energe	0.5S

Operating Environment	
Operating Temperature	-25 ... +55 °C
Storage Temperature	-40 ... +85 °C
Humidity	5 ... 95 %RH @ 50°C (Non-condensing)

Specification	
Wiring Methods	3PH3W / 3PH4W
Display	12-Bit LCD display, Backlight display
Installation	DIN-Rail

Dimension	
Size	72×90×65 mm (L×W×H)

Order Information

Model	Description
F601C	Smart power meter, with display, DIN-Rail, 3 × 220(380)V / 3 × 1(6)A
F601D	Smart power meter, with display, DIN-Rail, 3 × 57.7(100)V / 3 × 1(6)A

* For other measurement requirements, please consult sales

https://yua-instruments.com/

A：Room R2–B, Gaoxin Industrial Park, No. 206 Gaoxin South 7th Road, Yuehai Street, Nanshan District, Shenzhen, Guangdong, China

M：sales@yua–instruments.com