CAPX-P Three-phase Active Power Transmitter

1. Overview

CAPX digital active power transmitter is a device that calculates the active power of the measured current and voltage signals through an internal CPU, converts them into linearly proportional output DC current and voltage, and isolates them. It is equipped with corresponding indicator instruments or devices and is a necessary analog acquisition module for power systems, remote control devices, automation control systems, etc.

2. Main Technical Requirements

Accuracy level: 0.2.

Working power supply: AC/DC 220V (limit 80~265V).

Input current: CT 0-5A (0-1A), user-selected.

Input voltage: PT 100V; 110V, 220V/380V; user-selected.

System frequency: 50 or 60Hz.

Active power: $P=1.732*I*U*\cos\phi$ (3P3); $P=(IA*UA+IB*UB+IC*UC)*\cos\phi$ (3P4).

Transmission output: current 0-20mA, 4-20mA, 4-12-20mA, load resistance 500Ω; voltage 0-10V, load resistance 10kΩ.

Isolation withstand voltage: power supply-input-output, 2kV, 1min.

Operating environment: ambient temperature -20°C~55°C, relative humidity ≤90%RH.

Executive standard: GB/T13850.1-92.

3. Model Specification

CAPX-P2431A: current 5A, voltage 110V, 3P3W, active power P=-953W~0~+953W, corresponding output 4-12-20mA, power supply AC/DC220V.

4. Shape and Wiring

Dimensions: 110x75x120mm; mounting method: 35mm rail card loading.

Note: when wiring, please pay attention to "*" as the current inflow end and connect correctly according to the wiring diagram. When the working power is correctly connected, the power indicator on the panel lights up.