

TTU301 Smart Distribution Transformer Terminal Unit

Overview: Smart distribution transformer terminal unit is installed in the transformer station area. It has the functions of power distribution energy metering, reactive power compensation, three-phase load unbalance treatment for 0.4kV low voltage equipment of distribution transformer and automatic measurement, acquisition, protection, monitoring and safety protection for power supply demand information .

Overview:

The TTU301 is installed in the station area of pole mounted transformer, which has the functions of power distribution, energy metering, reactive power compensation, three-phase load unbalance management, and the automatic measurement, acquisition, protection, monitoring, safety protection, etc. of power supply and consumption information for 0.4kV low voltage equipment of distribution transformer.

Features:

- Distribution transformer monitoring: Real-time collection and uploading of voltage, current, temperature and humidity data in the station area
- Automatic meter reading: Data collection of total meter in station area, to obtain the refined operation data of station area, the extendable broadband carrier reads the user's meter data.
- ••Equipment monitoring: Automatic monitoring of equipment such as feeder switches and leakage switches in the station area.
- Intelligent reactive power compensation monitoring: Real-time data collection of intelligent reactive power compensation equipment.
- •-Micro-power wireless maintenance: Due to the complex environment of the installation location of the box, the terminal provides convenient on-site wireless debugging and upgrade.
- Three-phase unbalance management: Perform balance adjustment using commutation device according to the monitoring of three-phase unbalance situation in the station area.
- ••Fault location and indication: In-situ indication and automatic report by monitoring information such as its own status, external switch faults, etc.
- •-Safety protection: Information safety protection based on embedded security chip.



Technical Parameters:

Power supply	Rated voltage	AC220V/380V, 50Hz
	Allowable deviation	-30%~+30%
	Rated current	5A
Precise measurement range	Voltage	176-264V
	Current	0-6A
	Frequency	45Hz-55Hz
Measurement accuracy	Voltage	≤±0.5%
	Current	≤±0.5%
	Frequency	≤0.01Hz
	Active power	≤±1%
	Reactive power	≤±1%
	Power factor	≤±1%
	inspecting power	≤±1.0%
	Electrical measurement	≤1.0%
	Terminal static power consumption	≤10 VA
Power consumption	Voltage current Loop power consumption	≤0.5VA
Backup power	Super capacitor	
Communication channel	RS485, 4G mobile, micro power wireless, Ethernet, carrier interface, USB	