

HYP2692 Communication Manager

Summary

HYP2692 communication manager is one of important part of substation automation system. It is used in applications of micro-computer protection, data communication between electronic devices (eg. automatic devices, detector) and main computer system of substations or grid automation systems. It realizes the wholly distributed mode system.



HYP2692 communication manager can be used as the general-controlling mode substation of integrative automatic system or as the front-computer, being the medium layer of the automation system. It can communicate both in upward with systems (eg. main station) and in downward with end equipments within its administrative district. By collecting and transimting data of end equipments, the product realizes the functions of mirco-substation and front-computer, making the communication more security and reliable.

Product features

1. Adopting PHILIPS 32bit-Arm7TDMI-S CPU micro-controller, with strong ability of processing and rich resources;
2. Multi-ways of communication setting, including five RS232/RS485 bus line interfaces, two CAN main line communication interfaces and one TCP/IP communication interface.
3. Supportive communication with main computer through network, many optional communication protocols for each communication interface, including IEC60870-5 series clauses, CDT, MODBUS, TCP/IP, etc.
4. Detecting and monitoring the communication status of all the equipments and devices. Automatically updating time through GPS and uniform system time.
5. Maintenance tool realizes setting and maintenance functions through network.

Technical features

- Communication rate
 - CAN Longest communication distance 10Km/5KB
 - CAN Highest communication rate 1MBPS/40m
 - RS-232/485 communication interface 300/600/1200/2400/4800/9600bits/s
- Internet interface 10MBPS
 - Supply voltage DC5V
 - Power 1W
 - Power supply interruption time allowed is less than 0.1s
- Insulation resistance 100MΩ/500V
- Withstand test 2.0KV/50Hz/1min
- Impulse voltage test ±4KV/1.2/50 μS/0.5J
- Interference (power supply and relay output section)
 - Common mode interference 2.5KV/1MHz/2s
 - Differential mode interference 1.0KV/1MHz/2s
 - Electromagnetic radiation interference 30-500MHz
 - Static electric field interference 8.0KV
- Mechanical test
 - Vibration 10-500Hz 50m/s
 - Impulsion and strike 150m/s
- Normal working temperature range -15~+55°C
 - Storage and transport temperature -40~+70°C
- Relative humidity 95% (Altitude no more than 2000m)
- Weight 1.7Kg
- Dimension 485mm × 45mm × 190mm (width × height × depth)

Outline demension

