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Remote Fault Indicator

Overhead Line Transient & Signalling Feature and Type Remote Fault Indicator

Powering the Future with Precision and Control

Engineered by EDMP, this advanced data concentrator unit is purpose-built for modern distribution networks. Powered by a highperformance 32-bit RISC embedded platform, it combines intelligent software and robust hardware to deliver reliable, real-time fault monitoring and detection. With large-capacity flash memory and a long-life backup power system, it ensures uninterrupted data logging and system integrity—even in challenging conditions.

Monitoring Tools

Features & Functions

Wireless Communication	• Micro-power wireless communication • Using frequency-hopping self-organizing network • Long transmission distance
Fault signal acquisition	• Using indicators installed along the communication line
Fault Detection	• Discrimination for short-circuits • Ground faults on the communication line
Monitoring Techniques	• Monitoring of normal load current • Monitoring transient current changes on the communication line • Monitoring the status of the fault indicators
Configuration	• Configuration of indicator parameters and setting of alarm thresholds
Voltage Management	• Acquisition and management of remote terminal power supply voltage and charging voltage
Firmware Upgrade	• Remote upgrade of the terminal firmware
Alerts	• Receiving and executing local or master station commands
Monitoring Techniques	• Power outage events, • Parameter configurations, • Power outage alarms • Power reconnection
Memory	• Multi-year data retention and large data storage

Technical Specification

Parameter	Value
Communication Protocol with Master Station	• Complies with IEC104/101 standards; supports software adaptation and integration with existing fault location systems
Uplink Communication	• Terminal supports multiple communication interfaces; selectable options include GPRS/CDMA, Ethernet, fiber optics, etc.
Downlink Communication	• Remote micro-power wireless communication
Local Communication Interfaces	• RS232 / RS485, USB, micro-power wireless
Panel Display	• 160×160 dot matrix LCD display (powered by AC220V)
Power Supply	• 230×3V / 400V (overhead or cable system) • Solar power (overhead lines) • CT-powered self-supply (overhead or cable lines
Backup Power Source	• Supercapacitor / High-capacity rechargeable battery
Function Expansion	• Supports expansion to interface with other systems or devices
Remote Upgrade	• Supported

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