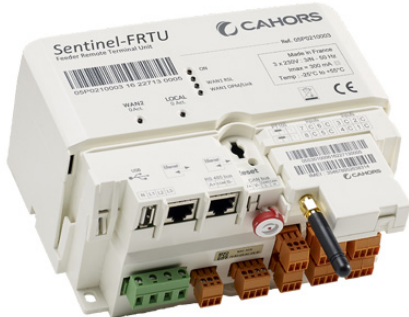


MV/LV SUBSTATION MONITORING - SENTINEL FRTU



Sentinel-FRTU (Feeder Remote Terminal Unit) / Centraliser of data for the remote monitoring of MV/LV transformer substations.

Main characteristics

Installed in MV/LV transformer substations, the Sentinel-FRTU centralises data and events collected in a power substation and sends this information remotely to a control IT centre therefore:

- Monitors the main components of a MV/LV substation
 - Fault passage indicators (FPI / FCI)
 - Substation environment
 - MV/LV transformer
 - Low voltage panel board
- Collects the main LV electrical amounts
- Monitors these amounts and generates alarms or events
- Stores and timestamps these events and measures
- Reproduces the alarms, measurements and events locally or remotely via a communication means (GSM/GPRS, Ethernet) to:
 - Field agents (receiving SMS alerts)
 - Operations managers (ex. on-call staff)
 - A remote computer system for analysis or monitoring

Key points:

- Powered from the substation's 230 Vac LV
- Collects data from measurement units
- Two groups of 4 digital inputs (door opening contact, water level, etc.)
- Two PT1000 inputs for monitoring temperatures
- Four communication ports
- Onboard web server

Advantages

- Easy installation, on new structures and when retrofitting
- Better perception of balance between loads and production
- Integration of optimised renewable energy
- Monitored quality of the distributed energy
- Highlighted phase imbalances
- Easy prioritisation of necessary network improvements

Uses

- Private network and public distribution network
- Any type of MV/LV substation can be monitored

