



MONITORING GTCEP

Supervision of 3200 V / 5500 V substations

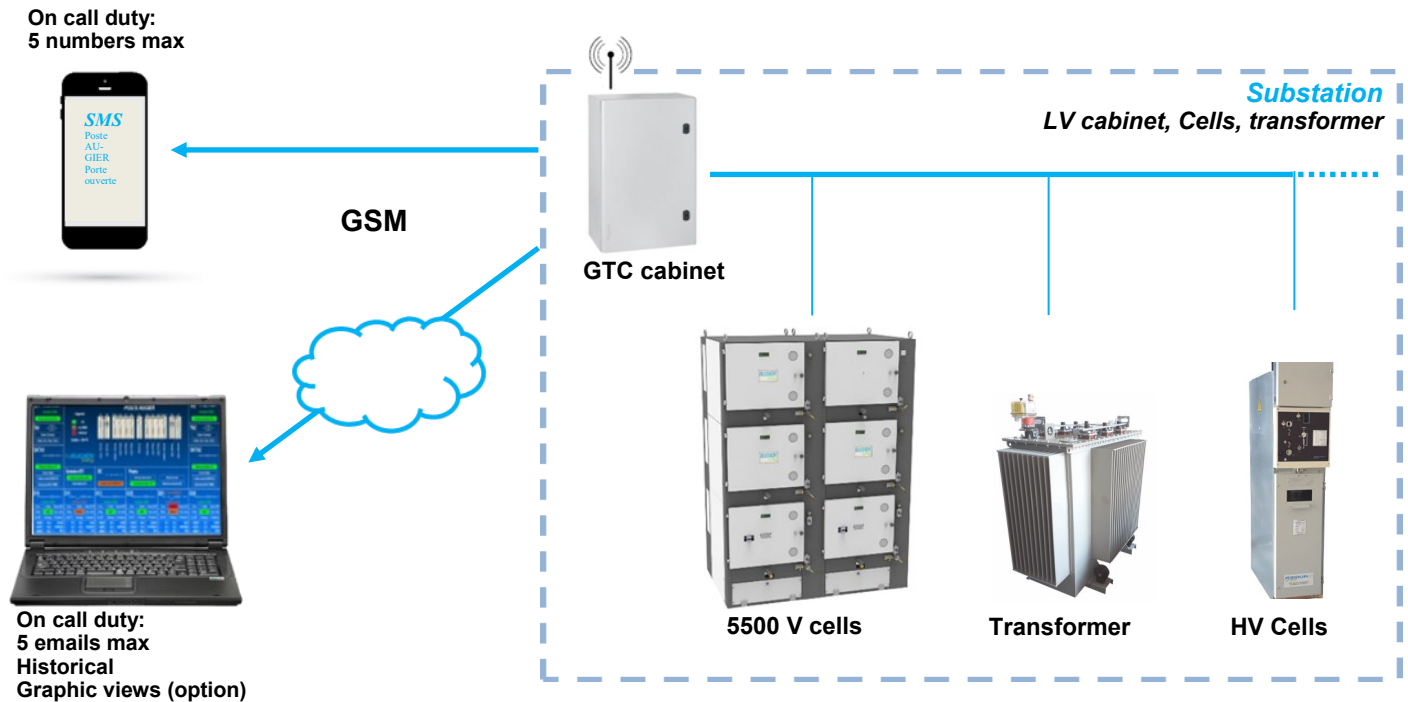
Product leaflet

- ✓ Secure the substation
- ✓ Ensure continuity of service
- ✓ Follow the events
- ✓ Easy maintenance
- ✓ Be connected

AUGIER Monitoring system for substation has been designed to ensure the maintainability of the 3200 V / 5500 V substations.

AUGIER GTCEP system keep an eye on substations equipment such as 5500 V cells, power transformers and HV cells. The monitoring of the substation makes it possible to secure the substation and to be informed of any intrusion or the beginning of a fire.

Monitoring with SMS & email



When any fault appears, our industrial remote gateway sends a SMS notification to one or many recipients. The SMS will mention the concerned substation, active faults and alarms.

AUGIER ensures a personalized development of the GTCEP system for each substation.

AUGIER ensures also the delivery, the commissioning and the training of the concerned staff.

The installer should check the availability of supervised information. Connection to the supervised equipment and the GSM subscription is not the responsibility of AUGIER.

Materials

All monitoring equipment that provide a feedback from the installation will be installed in a wall cabinet or integrated in the power low voltage cabinet. These equipments should be installed in the substation that has to be managed. The cabinet will include :

- One intelligent module which contains :
 - One RS485 communication card to dialog with 3200V/5500V cells
 - One GSM communication card to send SMS & email
 - Digital inputs
- A rescued 230 V / 24 V power supply
- A smoke detector
- A thermal probe

The following materials have to be linked to the GTCEP system :

- 3200V/5500V cells (RS485 JBUS)
- Substation equipment (digital inputs)
- Power supply (230V)

Monitored points

Monitoring equipment		Monitored points*
Substation		Substation door open Fire alarm 48 Vcc available Exceeding substation temperature
HV Cells (15 kV, 20 kV..)		Absence of HV voltage Switch (circuit breaker) open Fuse fusion defect (circuit breaker)
Transformers		Alarm protection Fault protection
MV Cells (3200 V, 5500 V)	Incomer switch	Serial link communication fault Absence of MV voltage MV fuse fusion fault Unhooked position of the carriage
	Coupler switch	Unhooked position of the carriage
	Feeder contactor	Serial link communication fault Fault lighting control Contactor fault Lack pressure SF6 fault Fuse fusion fault Amperometric and homopolar fault MV network isolation alarm or fault
LV cabinet		Presence of voltage 230 V 24 V battery fault

Sending an SMS and an email about an event.

A rescued 24 V source guarantees the proper feedback of information when the station is no longer supplied.

On request any other information may be supervised within the controller's capacity.



Smoke detector



Thermal probe

* Subject to availability of information

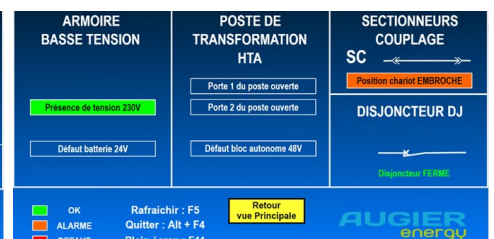
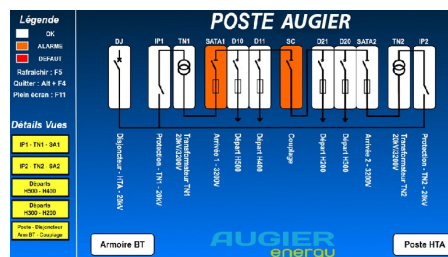
Monitoring with graphical views

Graphical views and remote access

In addition to sending SMS or email, development of views and provision of the necessary tools (access WEB, Login and password) to access the views of the medium voltage station. Access to the views can be done from any computer, tablet or phone connected to the internet.

Developed graphical views:

- A general view of the substation
- One view per transformer
- A view per block of three cells
- A view of the substation & LV web



Additional information monitored with graphical views:

For feeders contactor :

- Position of the contactor
- Value of line currents
- Voltage value, power rating calculation
- Uptime

For incoming switch :

- Position of the earth switch

AUGIER HAS BEEN ISO 9001 CERTIFIED SINCE 1995



Dealer contact information:

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