









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
- ✓ Save energy

GTCEP

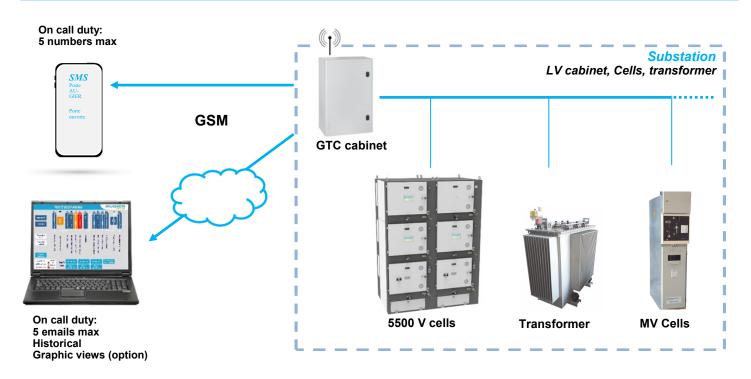
Monitoring SMS & E-mail

AUGIER Monitoring system for substation has been designed to ensure the maintainability of the 3200 V / 5500 V (HTI) substations and securing transformer stations.

AUGIER GTCEP system keep an eye on substations equipment such as 5500 V cells, power transformers and MV 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 equipment should be installed in the substation that has to be managed. The cabinet will include:

- One intelligent module which contains :
 - One communication card to dialog with 3200V/5500V cells
 - One GSM 4G communication card to send SMS & E-mail
 - Digital inputs
- A rescued 230 V / 24 V power supply
- A smoke detector
- A thermal probe
- A door contact
- A GSM antenna including a 15 meter long extension cable



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

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

Accessories supplied separately, to be connected by the customer



Smoke detector





Thermal probe

Contact door

Monitored points

Monitoring equipment		Monitored points*	
Substation		Substation door open Fire alarm No voltage 48 Vcc Exceeding substation temperature	
MV Cells (15 kV, 20 kV)		Absence of MV voltage Switch (circuit breaker) open Fuse fusion defect (circuit breaker)	
Transformers		Alarm protection Fault protection	
MV Cells (3200 V, 5500 V)	Incomer switch	Communication fault Absence of MV voltage MV fuse fusion fault Unhooked position of the carriage	
	Coupler switch	Unhooked position of the carriage	
	Feeder contactor	Communication fault Fault lighting control Contactor fault Lack pressure SF6 fault, if available Fuse fusion fault Over current and homopolar fault MV network isolation alarm or fault	
LV cabinet		Presence of voltage 230 V 24 V battery fault	

^{*} Subject to availability of information

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.

Energy saving function:

Accessible from an HMI page, Possibility, for each departure, to set a lighting extinction period.

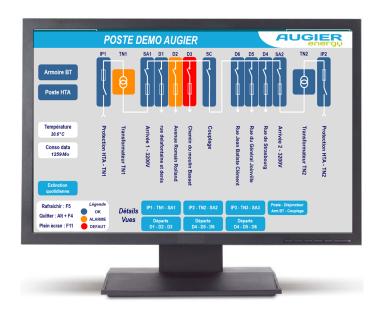
POS	TE DEMO AUGIER		AUG	IER energy		
Heure de l'automate	Plages horaires d'EXTINCTION quotidienne					
15 : 53	Noms des départs	Etat	DEBUT	FIN		
Mode d'emploi Si besoin, vous pouvez changer l'heure du poste, directement en cliquant sur les minutes (OK pour valider); puis, en cliquant sur les heures (OK pour valider).	rue delafontaine st denis	Activé	23:35	02:45		
	Avenue Romain Rolland	Désactivé				
	Chemin du moulin Basset	Activé	00:10	02:25		
	Rue de Strasbourg	Désactivé				
Entrer le nom des départs en cliquant dessus, ces noms seront repris dans les messages d'alertes des SMS et des emails.						
Activer les horaires d'extinction, en cliquant sur le carré blanc.						
Modifier si besoin les horaires en cliquant sur les heures (OK), puis sur les minutes (OK).						
Vous pouvez a tous moments désactiver l'extinction quotidienne en cliquant sur le carré vert, l'éclairage restera allumé la nuit.						
Retour vue Principale						

Personnel management function:

Accessible from an IHM page, Ability to change the name, telephone number and email address of on-call personnel.

POST	E DEMO AUGIER AUGIER AUGIER		
<u>Mode d'emploi</u>	Liste des destinataires pour les alarmes		
Si besoin, vous pouvez modifier les destinataires, directement en cliquant sur le numéro ou email "Emplacement libre"	Astreintes SMS		
et cliquer sur OK pour valider.	+33612823802		
Le nombre de destinaire SMS est limité à 5 numéros.	+33621212121		
Le nombre de destinaire EMAIL est limité à 5 emails.	Emplacement numéro libre		
Les prochaines alarmes ou defauts	Emplacement numéro libre		
seront envoyés a cette liste. Pour effectuer un test d'envois.	Emplacement numéro libre		
vous pouvez cliquer sur le bouton TEST ALARME.	Astreintes EMAIL		
TEST ALARME	home@augier.com		
	m.elbabili@augier.com		
	Emplacement email libre		
Retour	Emplacement email libre		
vue Principale	Emplacement email libre		

Access from any laptop



or smartphone



Monitoring with graphical views

Graphical views and remote access:

In addition to sending SMS or e-mail, 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 incoming MV/HTI
- · One view per block of three cells
- . A view of the substation & LV cabinet

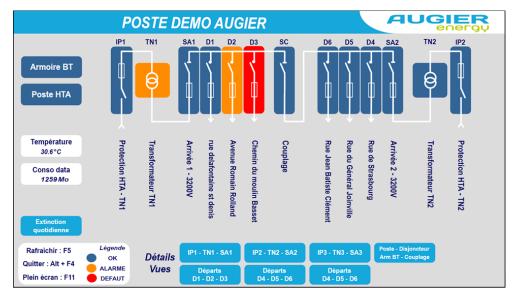
Additional information monitored with graphical views:

For feeders contactor:

- Position of the contactor,
- · Value of line currents,
- Voltage value,
- Network isolation monitoring,
- Energy consumed,
- Operating time.

For incoming switch:

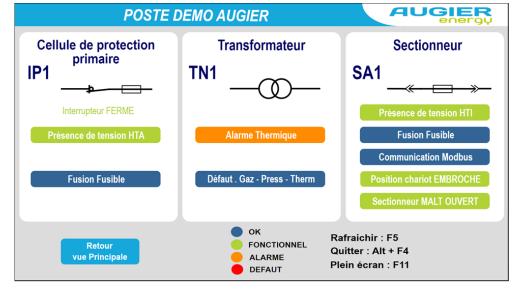
Position of the earth switch



General view of the substation:

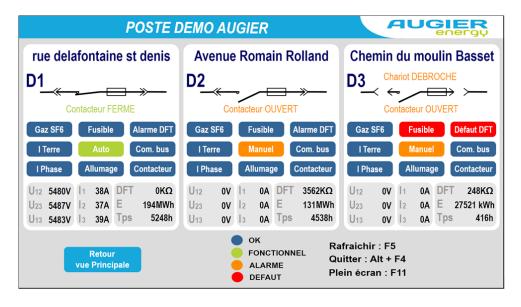
This view allows you to monitor all the elements of the transformer station, it gives access to all the detailed views.

Animated view, it reflects the real malfunctions of the MV and HTI cells.



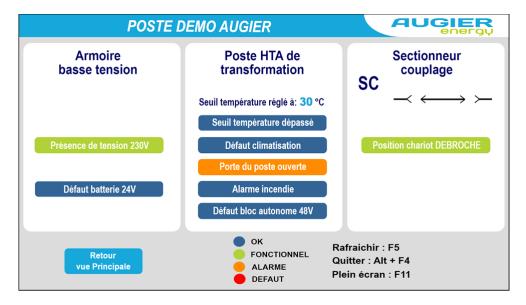
Detailed view:

Visualization of the status of the MV protection cells, the transformer and the HTI general protection cell.



Detailed view of the contactor departures:

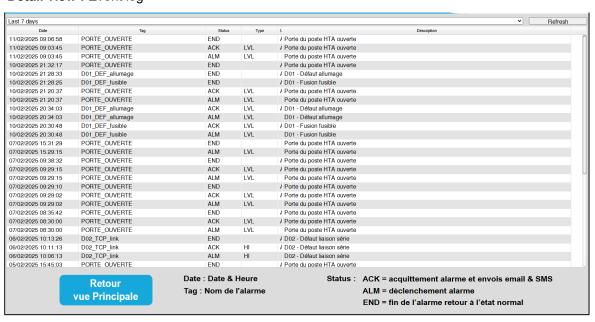
- Animated view allowing the visualization of the status of each of the contactor departures with additional display of:
- The position of the contactor trolley,
- The position of the earthing switch,
- · The network voltage,
- · The intensity in real time,
- The level of network insulation,
- · The energy consumed,
- The operating time



Detailed view:

Visualization of information concerning the safety of the transformer station, the LV cabinet and the HTI coupling device if applicable.

Detail view: Event log



AUGIER HAS BEEN ISO 9001 CERTIFIED SINCE 1995



Dealer contact information:						

