

GRIDWATCH

MONITORING OF ELECTRICAL TRANSFORMER STATIONS



Build your network of MV/LV transformer stations for the long term

Complete and upgradable
Quick roll-out
Compatible with any system



















GridWatch: Solution for supervising LV installations

A tailored solution

based on integration of the Ulys MCM multichannel meter



ANTICIPATE

AGING OF THE

TRANSFORMER

AND INSTALLATIONS

Optimization of scheduling and reduction of maintenance costs



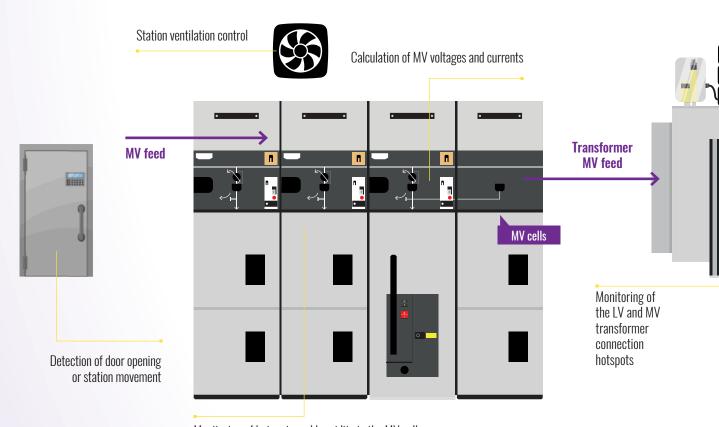
TRACE AND SECURE THE ENERGY FLOWS

Reduction of technical and non-technical losses

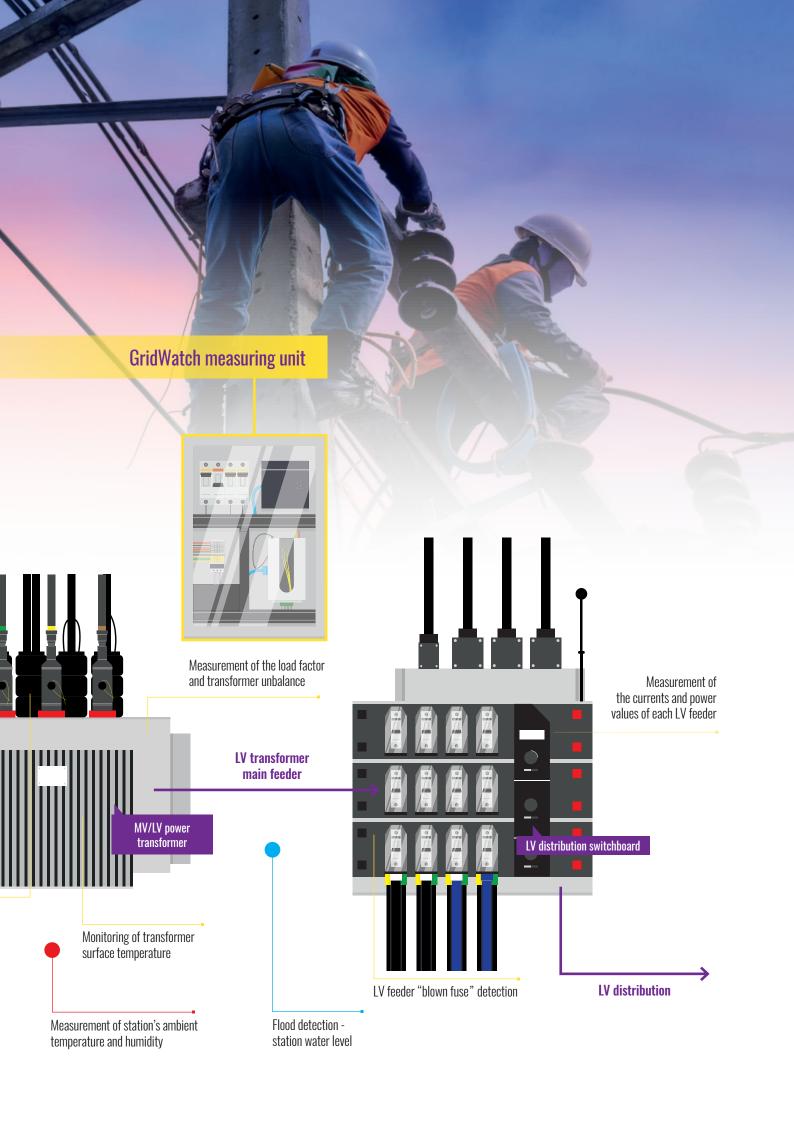


OPTIMIZE THE INSTALLATIONS AND NEW CONNECTIONS

Evaluation of the available reserve or the effective overload on the feeders or transformers



Monitoring of hotspots and humidity in the MV cells



Strengths



Complete and upgradable

GridWatch includes all the sensors for supervising the critical points in the MV/LV transformer station.

Proposed in various versions, it adapts to the available space and budget for optimum implementation.

It will be possible to add sensors to GridWatch as required in order to instrument the transformer and then extend the analysis to the electrical feeders of the transformer station.







To reduce unavailability of the transformer station when the system is commissioned, GridWatch has been designed for quick installation and roll-out: openable current sensors with click-on connection, prewired environmental measuring sensors, preconfigured wireless hotspot sensors, etc.



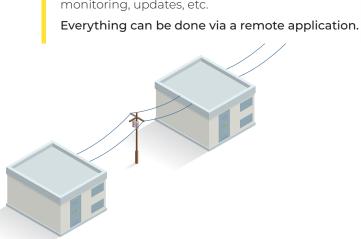
Compatible with any system

With its 3G/4G or Ethernet communication, GridWatch can be viewed remotely via its integrated web pages.

GridWatch provides the information on the transformer station in real time or by sending files via multiple means of communication.

Alarms can be sent by email or sms (text).

The associated system allows administration of a large number of units: geolocation, status monitoring, updates, etc.





Description of the offer



GridWatch C100







ANALYZE the load factor of the transformer and the feeders to optimize the connection of new equipment.

GridWatch C200







ANALYZE the load factor of the transformer and the feeders to optimize the connection of new equipment.

- + ANTICIPATE failures and aging on electrical installations
- + **CONTROL** maintenance of the stations

Measurement and analysis of the behavior of the transformer cabin equipment

Transformer monitoring: measurement and electrical metering at the level of the secondary of the main MV/LV transformer

- 3P+N voltage measurement on feed terminal strip
- Current measurement by quick-install Rogowski coil (diameter 200mm)
 - Quantities measured: V, U, I, F, P, Q, S, Phase, Ea, Eq, Es • MV calculated quantities: U. I

Monitoring of the low-voltage electrical feeders: measurement and electrical metering

- Current measurement by quick-install split-core CTs (up to 8 feeders)
- Quantities measured: V, U, I, F, P, Q, S, Phase, Ea, Eq, Es

Measurement of the general neutral currents and low-voltage feeders

- Yes

Measurement of the temperatures of the LV and MV transformer connection hotspots

Measurement of transformer surface

Yes

temperature

Measurement of the unit's ambient

Yes

Measurement of the unit's ambient temperature and of the stations temperature and ambient humidity

Ability to interface with the other

Analog inputs and on-off inputs and outputs available

elements in the transformer station

Communication et and data management

Communication mode 3G/4G communication and associated remote antenna

Data display

Remote web pages

Management of alarms and recordings

- Alarms on overruns and time delay with transmission of an sms or email, memorization in the alarms log.
 - Recording of all the quantities and variables
- Modbus TCP : Access to all the electrical and physical quantities in real time (1s)
 - MQTT :Alarm publisher mode / Subscriber mode

Protocols in simultaneous use

- HTTP: Access to all the electrical and physical quantities in real time, with the data being archived
 - Push FTP: File transmission on FTP server

General specifications		
Local data display screen	-	Yes
Dimensions	500×400×200	600×600×250
Use	Indoor	
Operating temperature	-10°C - +55°C	
Installation	Mounting on wall or stand	
Compliance	IEC 61439-1 / IEC 61439-5	
Battery operating in the event of a power cut	-	Yes

The sensor kits associated with your units enable you to perform measurements on low-voltage feeders

Kit for 4 x 400 A feeders with 9 m cables

Kit for 4 x 400 A feeders with 250 A neutrals and 9 m cables

Kit for 8 x 400 A feeders with 9 m cables

Kit for 8 x 400 A feeders with 250 A neutrals and 9 m cables

Your contacts

10 subsidiaries worldwide

AUSTRIA

Chauvin Arnoux Ges.m.b.H Gastgebgasse 27 1230 WIEN

Tél.:+43 1 61 61 9 61 Fax:+43 1 61 61 9 61-61 vie-office@chauvin-arnoux.at www.chauvin-arnoux.at

CHINA

SHANGHAI PU-JIANG ENERDIS
INSTRUMENTS CO. LTD
3 Floor, 23 Building
Gemdale Viseen Minhang Technology
& Industrial Park Project
1288 lane, Zhongchun Road
Minhang District, SHANGHAI City
Tél.:+86 21 65 21 51 96
Fax:+86 21 65 21 61 07

GERMANY

Chauvin Arnoux GmbH
Ohmstraße 1
77694 KEHL / RHEIN
Tél.:+49 07851 99 26-0
Fax:+49 07851 99 26-60
info@chauvin-arnoux.de
www.chauvin-arnoux.de

info@chauvin-arnoux.com.cn

ITALY AMRA SPA

Via Sant'Ambrogio, 23 20846 MACHERIO (MB) Tél.:+39 039 245 75 45 Fax:+39 039 481 561 info@amra-chauvin-arnoux.it www.chauvin-arnoux.it

MIDDLE EAST

PO Box 60-154 1241 2020 JAL EL DIB (Beyrouth) - LIBAN Tél.:+961 1 890 425 Fax:+961 1 890 424 camie@chauvin-arnoux.com www.chauvin-arnoux.com

Chauvin Arnoux Middle East

SCANDINAVIA

CA MÄTSYSTEM AB Sjöflygvägen 35 SE-183 62 TABY Tél.:+46 8 50 52 68 00 Fax:+46 8 50 52 68 10 info@camatsystem.com www.camatsystem.com

SPAIN

Chauvin Arnoux IBÉRICA SA
C/ Roger de Flor N°293 1a Planta
08025 BARCELONA
Tél.:+34 93 459 08 11
Fax:+34 93 459 14 43
info@chauvin-arnoux.es
www.chauvin-arnoux.es

SWITZERLAND

Chauvin Arnoux AG Moosacherstrasse 15 8804 AU / ZH Tél.:+41 44 727 75 55 Fax:+41 44 727 75 56 info@chauvin-arnoux.ch www.chauvin-arnoux.ch

UNITED KINGDOM

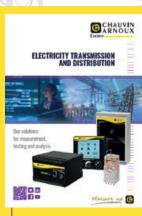
Chauvin Arnoux Ltd
Unit 1 Nelson Ct, Flagship Sq
Shaw Cross Business Pk, Dewsbury
West Yorkshire - WF12 7TH
Tél.:+44 1924 460 494
Fax:+44 1924 455 328
info@chauvin-arnoux.co.uk
www.chauvin-arnoux.com

USA

Chauvin Arnoux Inc d.b.a AEMC Instruments 15 Faraday Drive. Dover - NH 03820 Tél. :+1 (603) 749-6434 ext. 520 Fax:+1 (603) 742-2346 sales@aemc.com www.aemc.com



For more information about the Ulys MCM multichannel meter, our solution for centralizing the measurement of multiple electrical feeders



Discover all our measurement, testing and analysis solutions for electricity transmission and distribution

FRANCE

Chauvin Arnoux Energy
16, rue Georges Besse
92182 ANTONY Cedex
Tél: +33 1 75 60 10 30
Fax: +33 1 46 66 62 54
caenergy@chauvin-arnoux.com
www.chauvin-arnoux-energy.com

INTERNATIONAL

Chauvin Arnoux Energy
16, rue Georges Besse
92182 ANTONY Cedex - FRANCE
Tél: +33 175 60 10 30
Fax: +33 1 46 66 62 54
caenergy@chauvin-arnoux.com
www.chauvin-arnoux-energy.com

SWITZERLAND Chauvin Arnoux AG Moosacherstrasse 15 8804 AU / ZH Tél: +41 4472775 55 Fax: +41 4472775 56 info@chauvin-arnoux.ch www.chauvin-arnoux.ch

