Treetech®



GMP

Gas and Moisture Monitor

PRODUCT CATALOG

treetech.com.br

GMP: Advanced technology for gas and moisture monitoring!



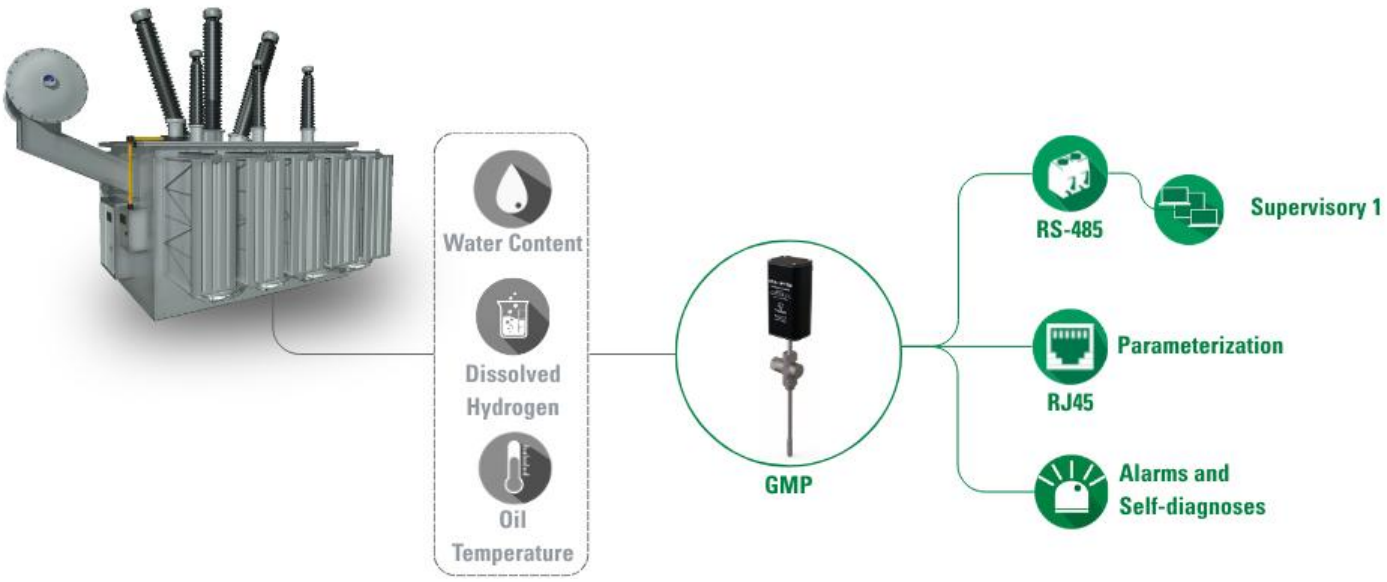
The Gas and Moisture Monitor (GMP) was developed to ensure continuous monitoring of the condition of power transformers, providing remote and real-time monitoring of H_2 levels, oil temperature, H_2O content (ppm), and relative moisture saturation (%).

In addition to monitoring variables, the GMP identifies behavioral trends, tracks the evolution of indicators, and estimates the remaining time before any alarm limits are reached. This allows maintenance teams to act proactively, reducing risks and preventing unplanned downtime.

The configuration is performed through an intuitive web interface, making parameterization simple and quick. After installation, the GMP operates autonomously, continuously providing data to the supervisory system and issuing immediate alerts whenever it detects anomalies or trends that could compromise the transformer's performance.

More than just monitoring, the GMP delivers strategic information for efficient predictive maintenance, increasing asset availability and contributing to a safer and more reliable operation.

SYSTEM TOPOLOGY



FEATURES

More robust!
IP67 protection rating (dustproof and resistant to immersion in water).



New design, more compact!
In addition to being more technological and robust, the new GMP boasts compact dimensions. Small in size and giant in technology!

Valve closure indicator
Indicates the limit for valve closure, ensuring safe removal of the GMP without damaging the stem.





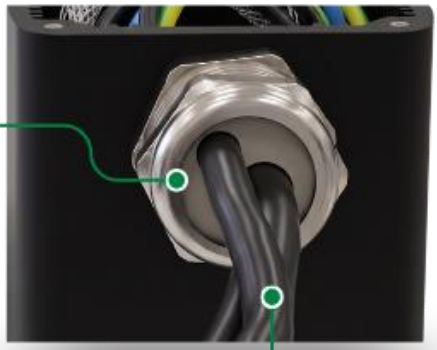
Parameterization via web page

The new GMP features an RJ45 port and an embedded web page, making equipment parameterization easier!



Easy installation: removable terminal and cable gland!

The new GMP was designed for quick and intuitive installation, with an easily accessible removable terminal and cable gland that, in addition to simplifying cable routing, ensures the necessary sealing for IP67 protection.



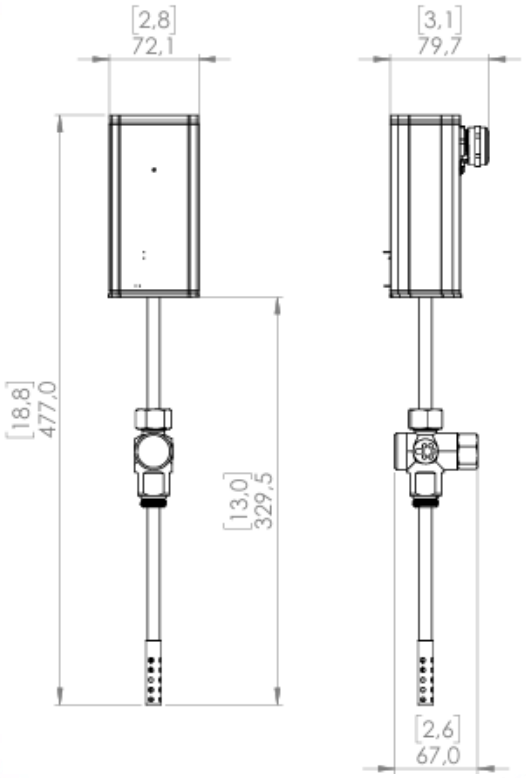
Double cable gland

Sealing guaranteed through the use of cables with the specifications recommended in the product manual.

TECHNICAL DATA

HARDWARE	RANGE/DESCRIPTION
Supply voltage	85...265 Vac/Vdc
Frequency	50/60 Hz
Maximum consumption	<15 W
Operating temperature	-40...70 °C
Protection rating	IP67
HYDROGEN MEASUREMENT	
Measuring range	30...5000 ppm
Maximum error	± 20% of the measurement or ± 20 ppm, whichever is greater
MEASUREMENT OF PERCENTAGE OF WATER SATURATION	
Measuring range	0...100% water saturation
Maximum error	±3% water saturation
TEMPERATURE MEASUREMENT	
Measuring range	-40ºC...120 °C
Maximum error	±0,2 °C of the end of scale
COMMUNICATION INTERFACE	
Communication protocols	DNP3 Modbus® RTU
Communication ports	1 RS-485 (based on TIA-485-A standard)
Configuration port	1 RJ45
DIMENSIONS AND WEIGHT	
Dimension	79.7 mm x 477
Weight	1090 grams

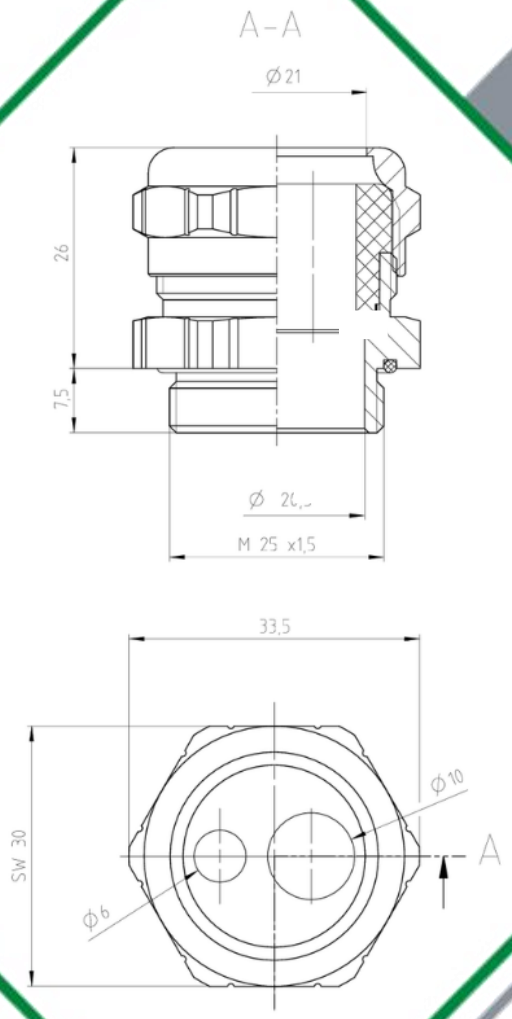
PRODUCT DIMENSIONS



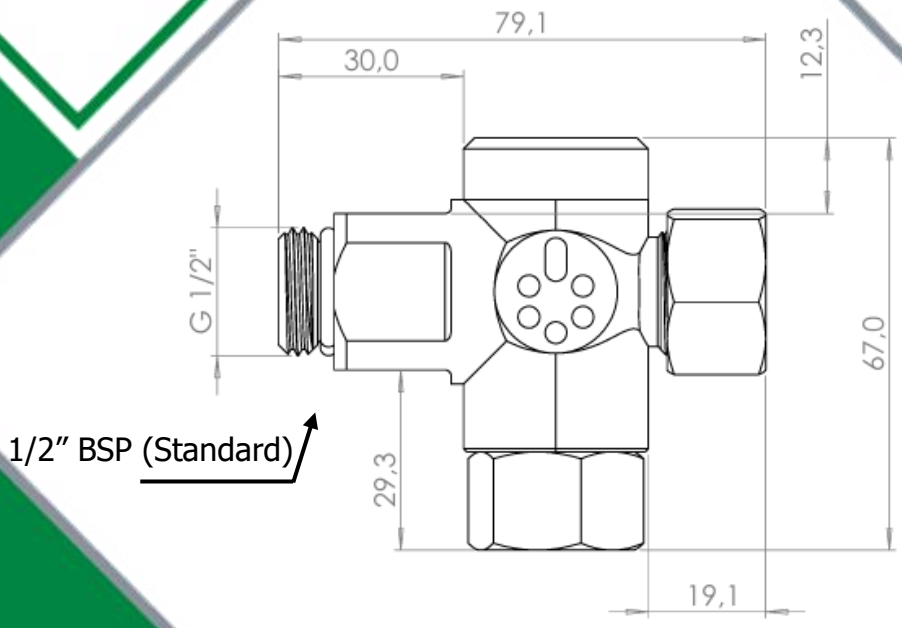
PRODUCT



CABLE GLAND



TREETECH CABLE CONNECTOR

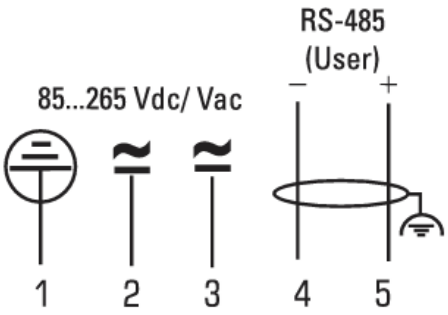


Dimensions in mm

Connect the cable shield to ground at the same point of GMP grounding.

Connect only one end of the cable shield to a noiseless ground terminal.

ETHERNET LAN:
192.168.87.87



ELECTRICAL DIAGRAM

RECOMMENDED ACCESSORIES

SIGMA ECM® MONITORING SOFTWARE

In addition to online temperature monitoring of your assets, our monitoring system and specialized team allow you to track the condition of your assets beyond simply reading data.

Monitoring is done through analysis of information collected by IEDs installed in your assets.

ORDER SPECIFICATIONS

In the product purchase order, it is necessary to specify:

- ✓ Product name;
- ✓ Quantity;
- ✓ Accessories.



Treetech®

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See the list of our distributors on:

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