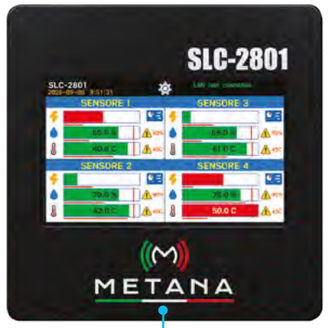
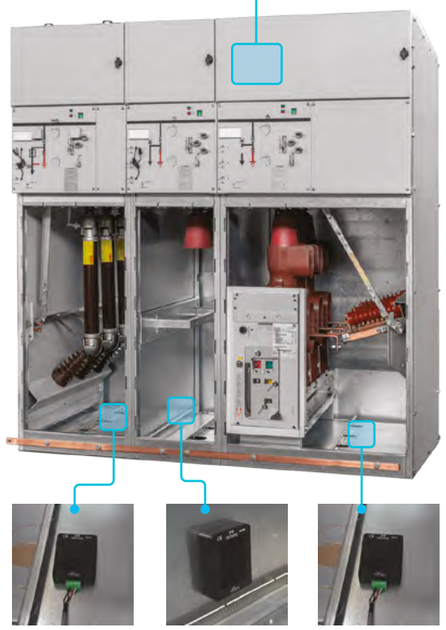
INTELLIGENT TOUCHSCREEN

The SLC-2801 touchscreen display makes system configuration easy, allowing users to set the main substation parameters and alarm thresholds.

It also provides **real-time access to environmental data**, while the **Ethernet connection with integrated Web Server** enables remote monitoring of the substation status.



- **CUSTOMIZABLE**
- **REAL-TIME MONITORING**
- **UP TO 4 SENSORS**



MULTI-POINT INSTALLATION

SLS-2801 sensors can be installed in different areas of the medium-voltage switchgear, ensuring comprehensive and simultaneous monitoring.
The magnetic mounting system allows for quick installation without drilling, while **support for 1 to 4 sensors ensures flexibility in system configuration, repositioning and maintenance.**

SLC-2801 DEVICE RATED SPECIFICATIONS	
Voltage (Vac)	100 - 240
Supply voltage fluctuation	±10%
Current (A)	0,055
Frequency (Hz)	50
Power consumption (W)	10
Weight (kg)	0,8
Dimensions (mm)	140 x 150 x 140
Temperature measurement range	da 35°C a 60°C
Humidity measurement range	da 50% a 100%

This document is not a substitute for the technical installation manual, which remains essential for the correct installation and operation of the equipment.

ITALIAN PATENT PENDING

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METANA

SLC-2801

SMART LOGIC CONTROL



PARTIAL DISCHARGE DETECTOR

GREATER SAFETY.
GREATER SERVICE CONTINUITY.
FEWER UNEXPECTED COSTS.

MADE IN ITALY

WHAT DOES SLC-2801 DO?

It prevents failures before they become emergencies by continuously monitoring the deterioration of electrical insulation in polyester components inside medium-voltage switchgear.

PREVENTS FAILURES

REDUCES MAINTENANCE COSTS

ENSURES SERVICE CONTINUITY

PROTECTS YOUR INSTALLATION

Partial discharges, the corona effect and electrical tracking can progressively compromise the insulation of medium-voltage switchgear, potentially leading to equipment failures, electrical arcing, plant shutdowns and costly emergency maintenance work.

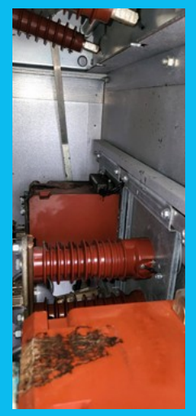
SLC-2801 takes a proactive approach by continuously monitoring ozone levels, temperature and humidity inside the switchgear through dedicated SLS-2801 sensors. The system combines these parameters with installation altitude and operating voltage, comparing the data against models developed and validated through laboratory testing and real-world field applications. This enables it to identify conditions that may indicate potential insulation deterioration.

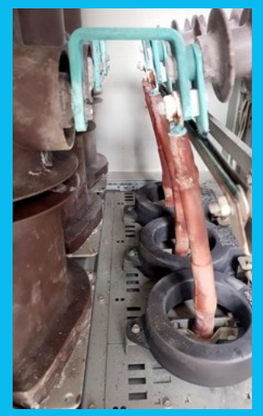
When an abnormal condition is detected, **SLC-2801 promptly generates an alarm**, allowing plant operators to investigate the issue and schedule maintenance before the anomaly develops into an irreversible failure.

OVER NEARLY 30 YEARS OF TECHNICAL CONSULTING IN MEDIUM- AND LOW-VOLTAGE SUBSTATIONS, WE HAVE IDENTIFIED THE MOST COMMON TYPES OF DAMAGE. THESE EXPERIENCES PROVIDED THE INSPIRATION AND MOTIVATION BEHIND THE DEVELOPMENT OF SLC-2801.









THE ADVANCED SLC-2801 SOLUTION

To address the risk of electrical insulation deterioration in polyester components and safeguard their integrity in medium-voltage switchgear, METANA SRL has developed an advanced, comprehensive monitoring solution: **the SLC-2801 system.**

GREATER SAFETY

PREDICTIVE ANALYSIS

CONTINUOUS MONITORING

HOW DOES IT WORK?

The SLC-2801 control unit centralizes environmental monitoring across the installation, ensuring continuous, real-time monitoring of ozone levels, temperature and humidity.
Data processing enables the early detection of abnormal conditions associated with potential insulation deterioration.

SLC-2801 central unit



SLS-2801 wired sensors (up to 4)



Continuous monitoring of:

- OZONE
- TEMPERATURE
- HUMIDITY

MULTI-ZONE COVERAGE WITH WIRED SLS-2801 SENSORS

The **SLC-2801 system** can simultaneously **monitor up to 4 zones within medium-voltage switchgear**, using SLS-2801 sensors connected to a single central unit.
The system continuously monitors **ozone levels, temperature and humidity**, promptly identifying any anomalies and triggering an alarm to prevent insulation damage.
The sensors have an expected service life of at least **five years**.
Actual service life depends on operating conditions and compliance with the operating and maintenance instructions.

