



LVS | LV Transformer Supervisor

Monitoring of LV transformer
in the Secondary Substation

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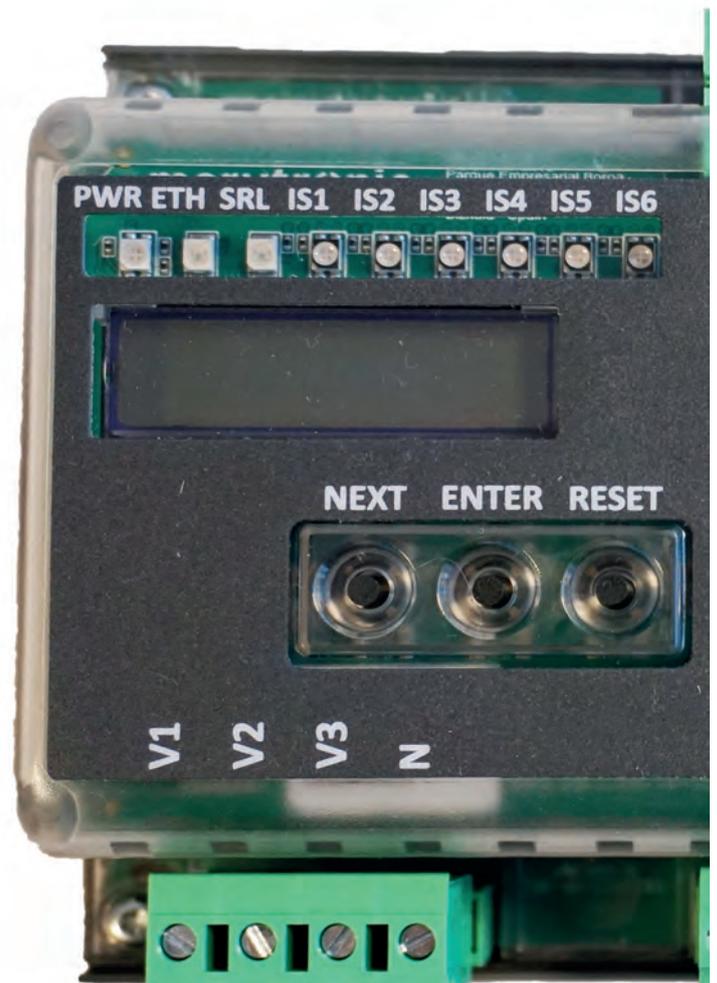
The **LVS | Low Voltage Supervisor** device is an element in charge of monitoring the status of the LV part of the Secondary Substation transformer.

Compatible with any type of transformer, this device includes one 3-phase voltage input and one/two 3-phase current input in order to calculate electrical measurements.

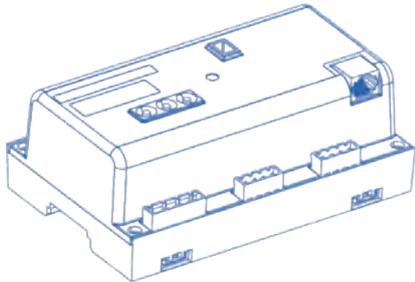
Equipped with various types of communication ports, it allows a complete monitoring of the transformer's electrical parameters, included temperature measurement in the advanced model. Its easy-to-use and intuitive user interface, allows a quick check of its correct installation and operation.

Applications

- **Transformer supervisor** in the LV output: monitoring up to 2 different outputs. For indoor or outdoor transformers (on a pole)
- **Feeder supervisor in the Secondary Substation:** LV panel supply feeder or LV outgoing feeder
- **Monitoring of any intermediate element** of the LV network: feeder pillar, main circuit breaker protection box...
- **LV network remote monitoring.** Device compatible with a 4G router
- **Measurement of harmonics in voltage and current and THD** (Total Harmonic Distortion), up to $n=40$ (*)
- **Internal algorithm** for estimating **transformer oil temperature**. This data can be used to know the transformer status, its overload level and its ageing (*)

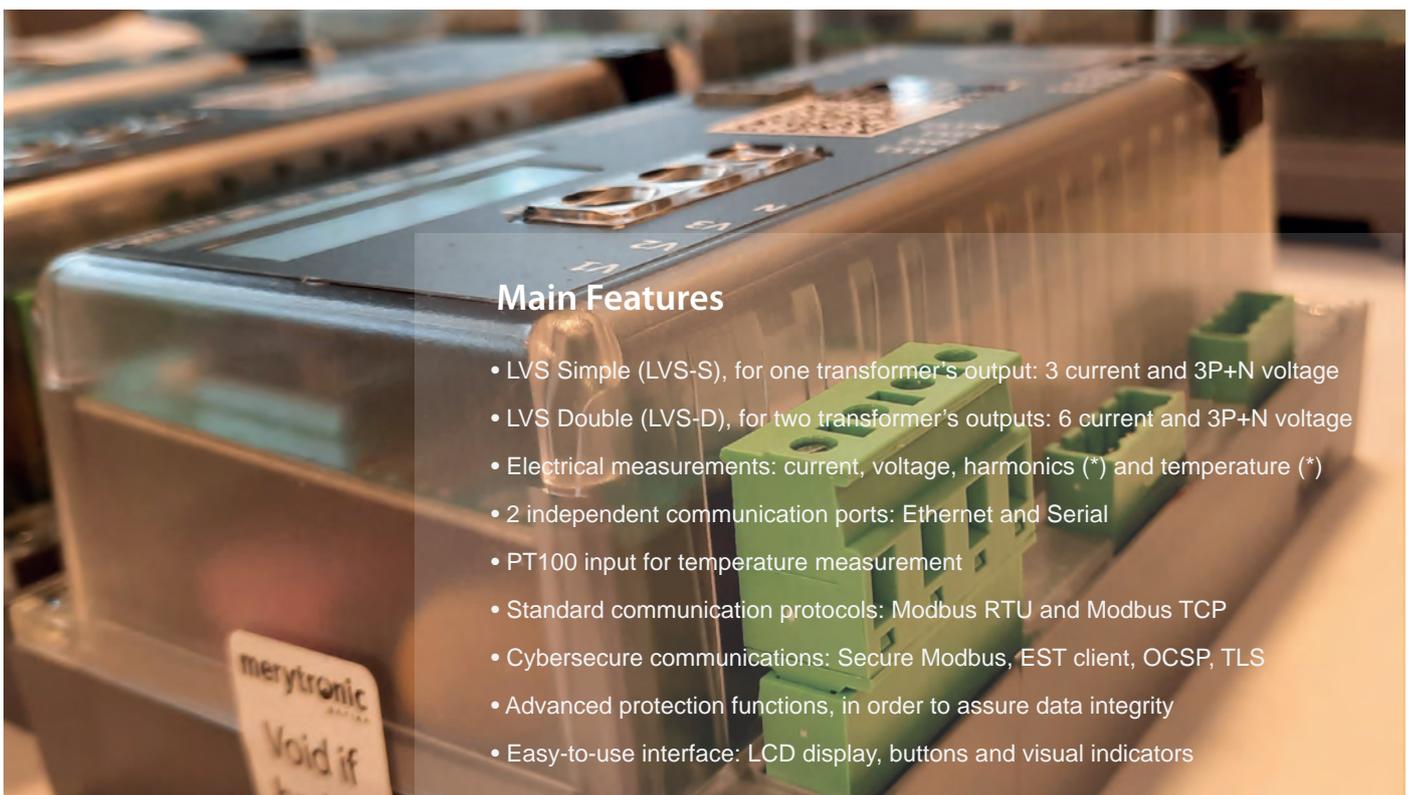


Models



	LVS - Simple <i>Monitoring of ONE feeder: incoming or outgoing</i>	LVS - Doble <i>Monitoring of TWO feeders: incoming and outgoing or 2 outgoing</i>
• BASIC MONITORING	✓	✓
• BASIC MONITORING • HARMONICS V-I	✓	✓
• BASIC MONITORING • HARMONICS V-I • TEMPERATURE MEASUREMENT	✓	✓

Protective enclosures available for indoor or outdoor use, with or without communications

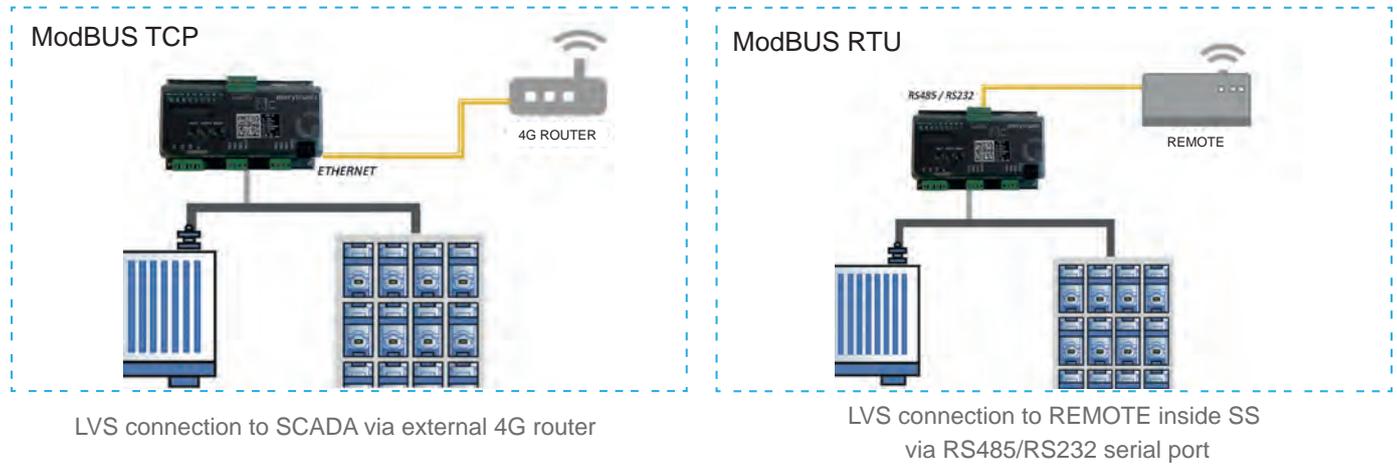


Main Features

- LVS Simple (LVS-S), for one transformer's output: 3 current and 3P+N voltage
- LVS Double (LVS-D), for two transformer's outputs: 6 current and 3P+N voltage
- Electrical measurements: current, voltage, harmonics (*) and temperature (*)
- 2 independent communication ports: Ethernet and Serial
- PT100 input for temperature measurement
- Standard communication protocols: Modbus RTU and Modbus TCP
- Cybersecure communications: Secure Modbus, EST client, OCSP, TLS
- Advanced protection functions, in order to assure data integrity
- Easy-to-use interface: LCD display, buttons and visual indicators

(*) Advanced version

Connection diagrams



Technical Features

Communications ports	<ul style="list-style-type: none"> 1 Ethernet port (RJ45 connector) 1 RS232/RS485/PT100 port 1 2-wires/3-wires selector for PT100 1 4-pole connectors, for 3-ph power supply 1 4-pole connectors for current measurement (LVS-S) 2 4-pole connectors for current measurement (LVS-D)
Power Supply	3-phase 230/400 VAC (ph-ph)
Power Supply Voltage	-15% to +20% (Vn)
Maximum consumption	< 5W/14VA
Temperature range (operational)	-25°C to +70°C
Dimensions	103.70 mm x 160.00 mm x 62.76 mm
Weight	500 gr
Degree of IP protection	IP40 (EN 60529)
Materials	Industrial polycarbonate (VO)
Lifetime expectation	> 10 years
Installation	Integrated DIN rail

Contact us for more information:

