INDUSTRIAL SA

NOVA SMT 5

NOVA SMT 5 is designed for the **on-line monitoring** of the **high voltage bushings of power transformers and shunt reactors** in operation, securing a **real-time evaluation of the bushings insulation condition** and **of the necessity to perform off-line routine tests**. The progressive insulation degradation of the monitored bushings can be controlled under safety conditions and the replacement of the faulty insulation bushing can be deferred until the corrective action is efficiently programmed.

On-line assessment of the condition : NOVA SMT 5 continuously monitors the **leakage current through the bushings**, **the sum of the leakage current through the three bushings** of the same transformer winding, **the relative power factor** between each pair of leakage currents through the bushings part of the same transformer winding. The monitored data can be displayed locally or remotely. The alphanumeric display of **NOVA SMT 5** equipment indicates the set of the bushings for which the monitoring is carried out and the value of the resulting current corresponding to it.

MAIN TECHNICAL SPECIFICATIONS
- ***Electrical inputs*** : 3/6 current inputs;
- ***Resulting current measuring range***: 0 - 200 mA, in 2 auto adjustable scales;
- ***Accuracy***: current 1 % of readings, 0,25 % full scale; power factor 5 %;
- ***Resolution***: 13 bits;
- ***Sampling rate***: 10 ksp;
- ***Selection of the current level for alert and of the protection action timings :*** from the keyboard.



Identification of the faults in their early phase: NOVA SMT 5 identifies the abnormal conditions / states of the monitored bushings anticipating the occurrence of severe faults.

Prioritized alerts: NOVA SMT 5 issues alerts by default critical levels, being an instrument for solving the problem of risk management. The selection of the current value corresponding to each alert and protection level (signaling / warning, action), respectively of the action times, is done from the front panel.

Easy to use and simple to install: NOVA SMT 5 requires the minimum outage time and resources for installation.

Robust and reliable: NOVA SMT 5 is designed to operate in the electromagnetic field and in the specific environmental conditions characteristic to substations.

Interface for PC connection: NOVA SMT 5 can be connected to PC through a standard **RS 232 or 485** interface. Ethernet connection is optional.

One **NOVA SMT 5** equipment can monitor one or two three-phase sets of bushings of the same power transformer.

100% created & made in ROMANIA

Over 25 years of experience

ISO 9001, ISO 14001, ISO 45001

QUALITAS
CERTIFICAT SMC NR. QC/1105 SR EN ISO 9001 : 2015

QUALITAS
CERTIFICAT SMM NR. QM/1034 SR EN ISO 14001 : 2015

QUALITAS
CERTIFICAT SMSSM NR. QSM 38 SR EN ISO 45001 : 2023

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