NOVA INDUSTRIAL SA

NOVA EMCSIT - TC/TT

NOVA EMCSIT - TC/TT equipment is designed for the **on-line monitoring of current and/or voltage instrument transformers**, ensuring on-line data acquisition regarding the operating parameters and the condition of the monitored apparatus, such as: **the technical condition of the transformer, the operating condition, the pressure of the insulating fluid, etc.** The equipment can also ensure data on **current and/or voltage over-stresses (the estimated amplitude, the occurrence time, the event duration, etc.)** in the power network where the on-line monitored transformer is connected.

INPUTS:
14 analog inputs:
- 6 inputs with a sampling rate of 10 kS/s/ channel: 3 x current through the secondary windings of the current transformer (galvanic insulated connection at the secondary of the current transformer) and **3** x voltage on the terminals of the secondary windings of the voltage instrument transformer (galvanic insulated direct connection at the secondary of the voltage transformer);
- 8 inputs with a sampling rate of 1 kS/s/ channel: 3 x current through the secondary windings on the current transformer (galvanic insulated connection); 3/6 x pressure of the insulation fluid in the current and/or voltage instrument transformer; 1 x environment temperature; 1 x available for input configuration.
10 digital inputs: 3/6 x trip contacts (dry contact): minimum pressure of the insulation fluid; 7/4 x contacts available for input configuration.

Digital resolution: maximum 100 µs. Number of bits / sample: 13 bits for the analog channels sampled at 10 kS/s and 10 bits for the analog channels sampled at 1 kS/s.



OUTPUTS:
4 relay contacts NO (dry contact): 1 x alarm contacts relay for inadequate operating condition of the transformer; 1 x alarm contacts relay for inadequate pressure of the isolation fluid; 2 x available relay contacts.

IED AND CLIENT COMMUNICATION (port / protocol / connection / client)**:**
RS232/ 485 Asynchronous Protocol / USB (converter) local / laptop connection; **Ethernet** 10/100/1000 (TCP/UDP) / CAT5/CAT6 cable, optical fiber plus media-converter / IED, control room or regional center server;
Wireless / IED, control room server (optional).
Timestamp: integrated GPS module with 10 µs accuracy.

The equipment can be integrated with **SCADA**.

SOFTWARE: Designed for **NOVA EMCSIT - TC/TT** equipment.

NOVA EMCSIT - TC/TT equipment can be used stand-alone or within **an integrated system for on-line monitoring of primary equipment from electric power stations** and substations - **Smart Grids**.

NOVA EMCSIT - TC/TT equipment: may be used for any type of current and/or voltage transformer in electric power stations and substations (whatever the constructive type or the condition of the old / new operating current and/or voltage transformer is).

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

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

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