NOVA INDUSTRIAL SA

NOVA EMCSIT - I

NOVA EMCSIT - I equipment is designed for the **on-line monitoring of high voltage circuit breakers**, ensuring on-line data acquisition regarding the operating parameters and the condition of the monitored apparatus, such as: **circuit breaker technical condition**, **close/open operating condition, operating times, lack of synchronization of operation between poles, arcing times, contact speed, re-ignition, number of operations, wearing of the contacts, pressure of the insulating fluid, the ambient temperature, the operating condition of the operating mechanism (current through motor, operating times), etc.**

INPUTS:
13 analog inputs:
- 5 inputs with the sampling rate of 10 kS/s/ channel: 1 x current through the tripping coil; 1 x current through the closing coil; 1/3 x phase current;
- 8 inputs with the sampling rate of 1 kS/s/ channel: 1 x battery voltage; 1/3 x pressure of the insulating fluid; 1 x current through the gear engine; 1 x ambient temperature; 1 x internal temperature of the driving gear; 1 x input available for configuration.
10 digital inputs: 1 x closing contact; 1 x tripping contact; 1 x CSA contact; 1 x auxiliary contact A (optional); 1 x auxiliary contact B (optional); 1 x initial closing contact (optional); 1 x initial tripping contact (optional); 3 x inputs available for 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 relay contacts for low voltage value at the circuit breaker operating mechanism; 1 x alarm relay contacts for inadequate pressure of insulating fluid (optional); 2 x contacts available for output configuration.

IED AND CLIENT COMMUNICATION (port / protocol / connection / client): **RS232 / 485** Asynchronous Protocol /USB local / laptop connection (converter); **Ethernet** 10/100/1000(TCP/UDP) / cable CAT5/CAT6, optical fiber plus media-convertor / 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 - I** equipment.

NOVA EMCSIT - I 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 - I equipment may be used for any type of circuit breaker in electric power stations and substations (whatever the constructive type or the condition of the old / new operating circuit breaker 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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