www.smcint.com

DigiGOOSE-600. Extra Physical & Virtual Binary Inputs/Outputs

Extension of binary Inputs and Outputs for the QUASAR

To expand the number of binary inputs and outputs of the Quasar (6 physical inputs + 4 physical outputs), you only need to connect the DigiGOOSE-600 to the QUASAR using its IEC-61850 connector. Immediately, the system will have **6 additional inputs** and **4 additional outputs**, fully configured for immediate use, resulting in a test set with 12 physical binary inputs and 8 physical binary outputs, without the need for any configuration.

Adapting physical binary signals to GOOSE messages

The **DigiGOOSE-600** can also be used to facilitate commissioning or maintenance testing of protection systems (as a portable device), or even as a permanent device installed inside a protection panel to adapt the binary outputs and/or binary inputs of relays that lack this protocol to **IEC 61850**.

The **DigiGOOSE** software from **EuroSMC** allows editing and subscribing to any binary GOOSE message corresponding to the physical inputs (up to 6), and editing and publishing any binary GOOSE message corresponding to the physical outputs (up to 4). The software can also read SCL configuration files



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The need for a higher number of binary inputs and outputs than those included in relay test equipment is currently important in order to adequately reproduce faults in complex schemes (Breaker-and-a-Half, Double Breaker, etc.) that require many binary inputs and outputs.

On the other hand, in order to test protection schemes in IEC 61850 using GOOSEs directly in protection panels that combine older relays without IEC 61850 with newer ones that do, it is necessary to have converters from physical binary signals to virtual IEC 61850 signals at the substation during the testing process.

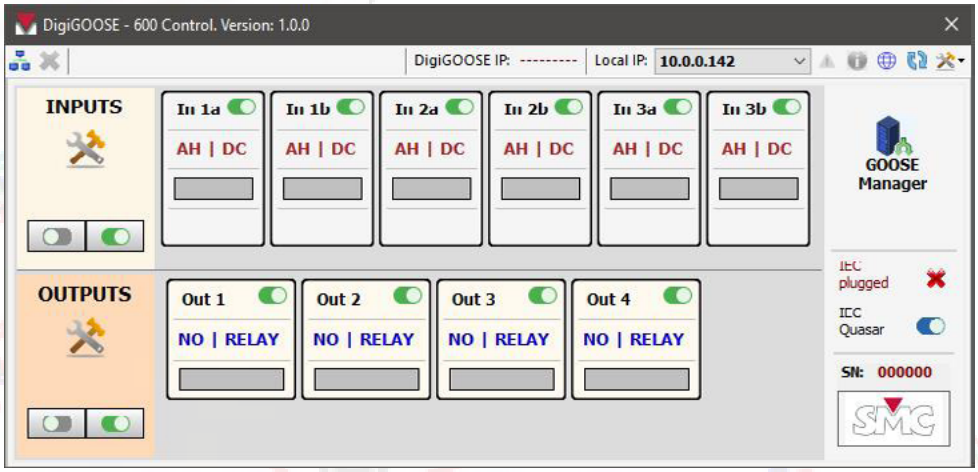
This need is covered by the new **DigiGOOSE-600** device from **EuroSMC**.

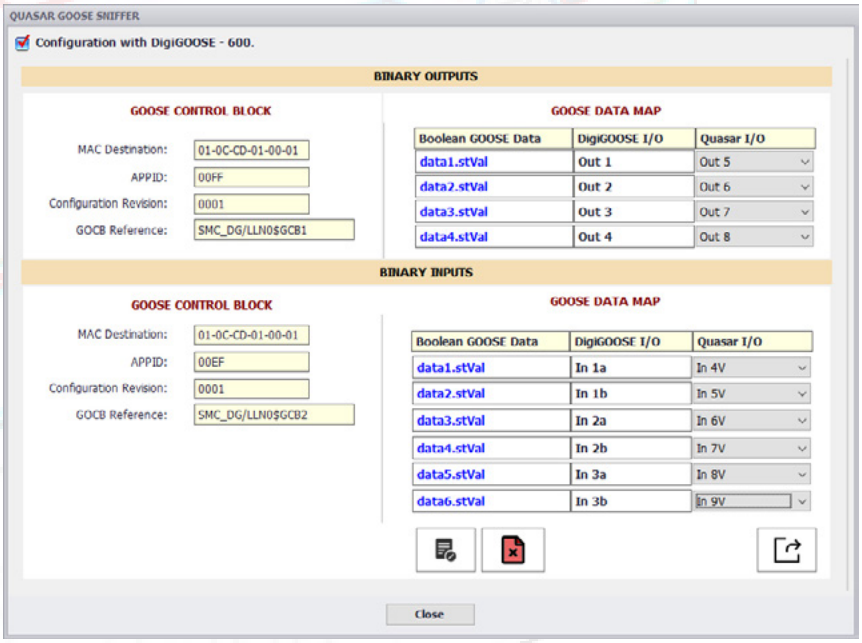
6 Binary Inputs can be **independently configured** to detect Dry Contact, either as Open (O) or Closed (C), or to detect the Presence or Absence of voltage up to 300 V in AC or DC.

4 Binary Outputs can be configured as Normally Open (NO), Normally Closed (NC), operating in Relay mode (a physical contact up to 8 A and 300 V), or in "Open Collector" mode (an electronic output up to 30 mA and 300 V).

2 RJ-45 Ethernet ports dedicated for the GOOSE signal traffic and communication with the **DigiGOOSE** configuration software respectively.

USB-A connection for streamlined update of internal firmware.





Please note: due to the continous research and development by EuroSMC, specifications in this document may be changed without previous notice. HAJCCEN-S V1