QContaxDLog

Data Logger Gateway

The QContax DLog gateway is a data logger interface for **energy or process monitoring** without installing a field controller (PLC).

Data are captured by multiple Modbus devices (multimeters or I/O modules), encrypted and stores in the integrated SD Card. Then the data are sent via a periodic export process to the Niagara service, installed on a remote server. This service allows simultaneous management of data logging and data analysis from multiple QContax DLog interfaces.

The data logger is easily configurable via a web interface; it is possible to define the operating parameters - sample records, sampling interval, the size/number of records to be memorized on the history - up to a maximum of 5000 records for each log. The Niagara service allows to receive data from the data logger with the possibility of configuring measurement units, time zones, conversion and data aggregation functions for each log.

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Key Features

- 1 x ETHERNET 10/100 Mbit/s port.
- 1 x RS485 port (Modbus Master), dedicated serial port for communication bus to field devices. Opto-isolated.
- SD card slot for firmware update and historical data storage.
- Communication status LEDs.
- Real Time Clock with integrated backup battery.
- Update date and time through NTP client.
- Web configuration interface or alternatively Telnet.
- Persistent data storage through industrial SD cards.
- Data encryption saved on SD card.
- Possibility to manage up to 256 Modbus registers for each type of device and up to a maximum of 20 different types of devices (16 devices per type).
- Sampling frequencies of the Modbus registers configurable from 1 to 9999 seconds or in COV (change of value) for coil and input status.
- Sending data to the remote management service at predefined intervals (15m, 30m, 1h, 4h, 6h, 8h, 12h and 24h).
- Remote data management service fully integrated on the Niagara platform with native history creation.
- Encryption in data transmission to the remote server with 128bit security algorithm.

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Specifications

Connectors

- 2 x connectors with 3 terminals (RS485)
- 1 x RJ45
- Removable
- Max cable size 2.5 mm²

Comunication

- 2 Interfaces RS485 half duplex
- 1 Fast Ethernet 10/100 Mbit/s
- Baud rate: 9600 to 57600 bps
- Micro SD card slot

Power Supply

DC: 24V ± 20%, 5W
AC: 24V ± 20%, 7.5VA

Temperature

Operating temperature:
da -10° C a +50° C
Storage temperature:
da -40° C a +85° C

Humidity

5 to 95% RH, no condensation

Gateway Protection

IP40 - for indoor installation

Dimensions
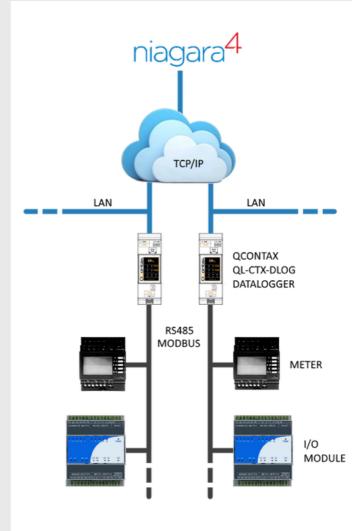
37mm x 110mm x 62mm

Mounting

DIN rail mounting
(DIN EN 50022 norm)

Housing Material

Plastic, self-extinguishing PC/ABS