

DATA RECORDER

Z-NET4 INTEGRATED DAQ SOFTWARE



Data Recorder is an open software, scalable and cost-effective Windows PC-based, suitable for, laboratories, testing rooms, process measures monitoring.

The communication between PC hardware and can be either serial (RTU RS232/RS485/ModBUS) or Ethernet / Modbus TCP-IP on wired or wireless system. A tabular menu provides access to the configuration of the channels from where you can set several parameters (name, description, unit of measure, start-end scale) for each track.

USB License KEY that can manage from 2 to unlimited channels (analog, digital, impulsive or calculated). The graphical representation is available on display (digit) or nibs. The real-time displaying offers multiple selection: groups of channels, range of representation, view type. Also the historical data (input and alarms) with a special visualization tool.

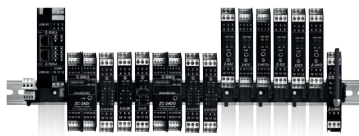
Plus package available include: alarm management (with enabling of digital outputs), report management (with trigger events) and math tool with algebraic functions, linear, trigonometric, boolean (digital channels) averaging calculation, deviations and compensation measures.

BASIC TOOLS / OPTIONS

Minimum hardware requirements

O.S. Windows 8 or later
RAM 128 MB
HD 3G
SVGA 800x600

Physical data acquisition via SENECA Z-PC Line Remote I/O system



Windows & OPC tested & supported



Hand-held DAQ system ready-to-use



HIGHLIGHTS

Software license from 2 to 64 channels



Real-time data recording with pen or display (digit)



Logging files (mdb, csv) displayed with Trend Viewer software tool



Data and project integration with Z-NET suite configuration



PLUS package with math, report, alarm, multiclient functions



Scheduling recording



Serial, Ethernet, Wireless connection support

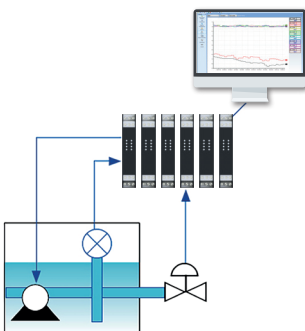


Advanced temperature sensors calibration

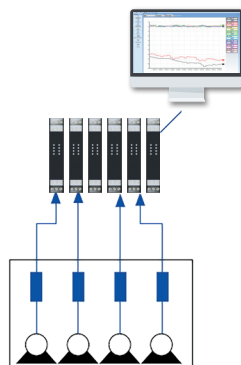


APPLICATION EXAMPLES

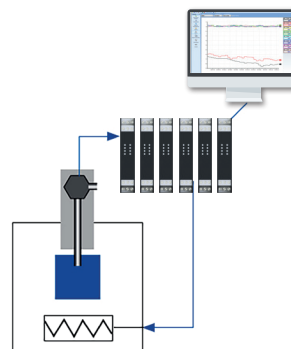
WATER QUALITY PARAMETERS MONITORING



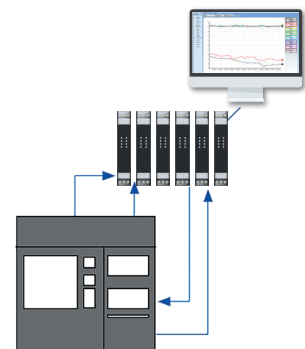
DATA TEST AND ACQUISITION FOR ELECTRIC MOTORS



HUMIDITY / TEMPERATURE MONITORING

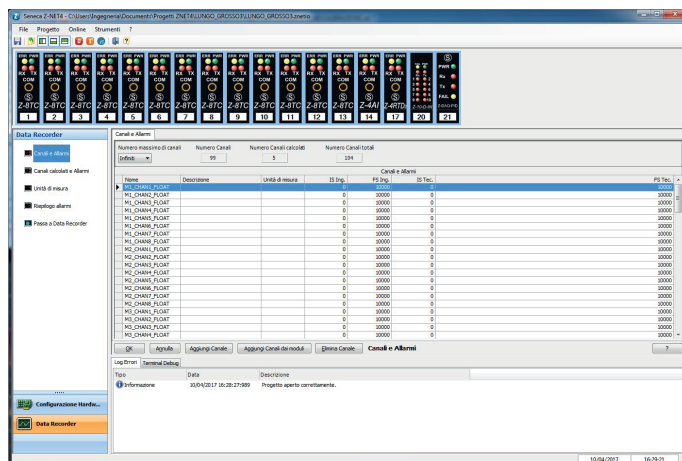


CLIMATIC CHAMBER MONITORING



CONFIGURATION STEPS

1 Z-NET4 – SYSTEM CONFIGURATION



- Hardware & Project configuration
- Communication parameters settings
- Channels (I/O, variables) settings
- Tag, name, description, end/full scale
- Math functions
- Alarm settings
- Online test configuration

2 DATA RECORDER



- Data acquisition from 2 to unlimited channels (min 1 sec. recording period)
- Visualization pages settings
- Digital display or pen mode visualization
- Start / Stop / Pause recording command
- Channels groups, range, scroll selection
- Real-time value / unit visualization
- Automatic report generation
- Recording scheduler
- Alarm display
- Thermocouple calibration
- Independent Multi-client recording sessions

3 TREND VIEWER



- Trend graphs visualization
- Independent visualization for different signal groups
- Alarms / Events log
- Archive and access history database
- Statistical processing over a cursor specified area
- Printing and conversion of data to csv and Excel compatible formats
- SQLite database management

ORDER CODES

Code	Description
DR-2	2-CH Data Recorder, data acquisition and visualization software for Modbus IO modules
DR-4	4-CH Data Recorder, data acquisition and visualization software for Modbus IO modules
DR-8	8-CH Data Recorder, data acquisition and visualization software for Modbus IO modules
DR-16	16-CH Data Recorder, data acquisition and visualization software for Modbus IO modules
DR-32	32-CH Data Recorder, data acquisition and visualization software for Modbus IO modules
DR-64	64-CH Data Recorder, data acquisition and visualization software for Modbus IO modules
DR-UN	Unlimited CH Data Recorder, data acquisition and visualization software for Modbus IO modules

ORDER CODES

Code	Description
DR-2-PLUS	2-CH Data Recorder + plus package (alarm, math, report, multi-client)
DR-4-PLUS	4-CH Data Recorder + plus package (alarm, math, report, multi-client)
DR-8-PLUS	8-CH Data Recorder + plus package (alarm, math, report, multi-client)
DR-16-PLUS	16-CH Data Recorder + plus package (alarm, math, report, multi-client)
DR-32-PLUS	32-CH Data Recorder + plus package (alarm, math, report, multi-client)
DR-64-PLUS	64-CH Data Recorder + plus package (alarm, math, report, multi-client)
DR-UN-PLUS	Unlimited CH Data Recorder + plus package (alarm, math, report, multi-client)