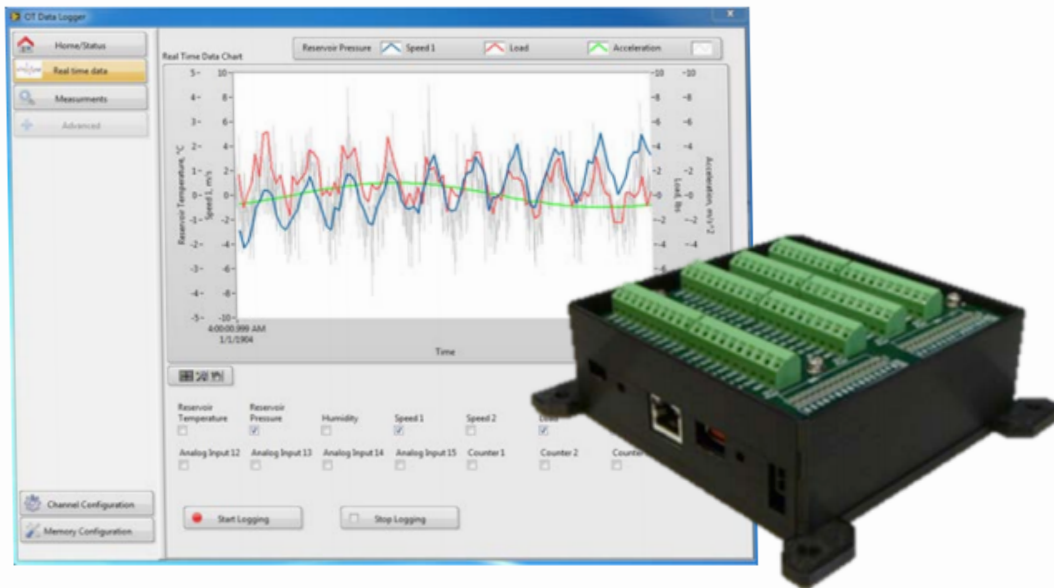


Data Logger



Overview

Data Logger is stand-alone easy-to-use system based on National Instruments Single-Board RIO. It is designed for data logging and monitoring applications. The software architecture makes it available to quickly add new functionalities and channels. It gives an opportunity to configure, view and export data to third-party packages. These industrial data loggers are ideal for wide range of applications such as fault identification, process monitoring and information logging in the following spheres: oil and gas, biotechnology, chemical, construction, manufacturing, scientific, laboratory, education etc.

Specifications

- Available on: NI sbRIO-9626/9633/9636
- Memory: USB/SD Card (up to 32GB)/Internal Memory (512/256/512MB)
- Temperature range: -40 to +85°C
- Graphical User Interface (GUI) is available on Windows, Linux and Mac
- SCADA connections:
 1. Modbus over RS232
 2. Modbus over RS485
 3. Modbus over TCP
 4. Modbus over UD
- Serial ports for smart sensors
- Logical expressions, alarms and triggers for each channel (physical, software)
- Available scaling algorithms per channel:
 1. Linear scaling within Min and Max
 2. Polynomial scaling
- Event management and logging:
 1. Min and Max Values per channel
 2. Configurable malfunctions
- Fitting and decimation algorithms
- Software extension is available to support custom protocols and buses for smart sensors

- Memory management:
 1. Stop recording
 2. Delete order data
 3. Delete data with lower priority
- Data viewing:
 1. Export data to DIAdem, Microsoft Excel
 2. Data Logger GUI: Real Time and historical viewer
- Operating Voltage 220V, AC; 12V, DC (car lighter plug)
- Battery life 4 hours

Channels

- 16 RSE or 8 Differential Voltage Inputs:
 1. NI sbRIO 9623/9633 (0V to 5V)
 2. NI sbRIO 9626/9636 (1V; 2V; 5V; 10V)
 3. Up to 200kS/sec per channel
 4. Resolution: up to 16 bit
- Up to 16 bit 4 Analog Outputs:
 1. Update rate: up to 200kS/sec per channel
 2. Resolution: up to 16 bit
- 8 TTL counters
- 2 RS232 ports
- 1 RS485 port
- Integrated 10/100BASE-T Ethernet
- Hardware extension is available to support current, high voltage, bridge measurements, wireless sensors, etc.