

NDL4 data logger

NDL4 is the fourth generation of NILU data loggers and the accumulation of 35 years of experience in data logger development.

NDL4 communicates digitally with the analyzer which makes it possible to collect both measurement data and status parameters. The status parameters give important information about the condition of the analyzer, such as gas flow rates, pump vacuum, etc. A number of commercially available ambient air quality

analyzers are predefined in the data logger and can easily be activated. Using an external USB to RS232 converter or data switch, the data logger connects to the RS232 or Ethernet port on the analyzer. Analog sensors are logged using an external analog to digital converter.

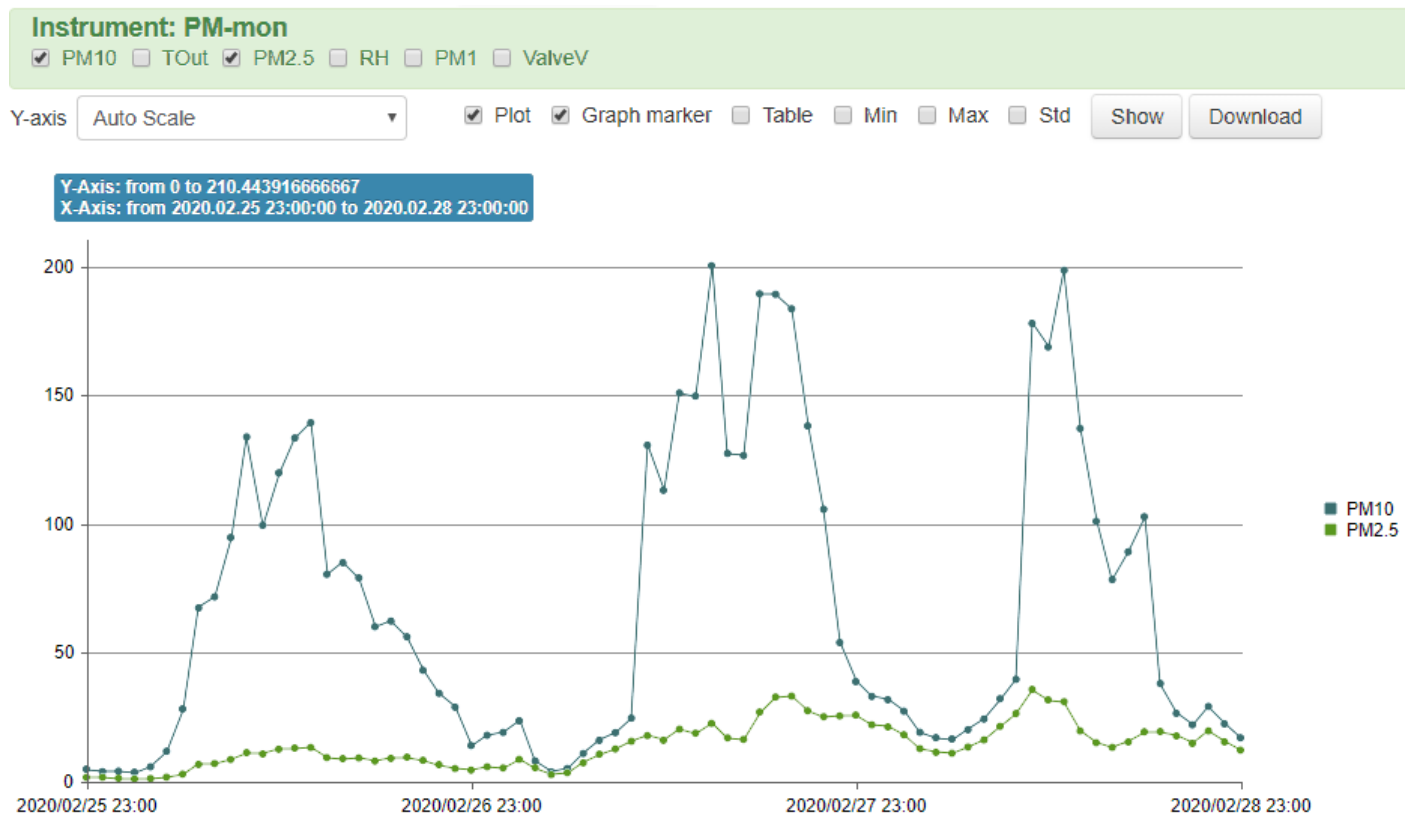
Typical data collection rate is 10 seconds and user configurable for each sensor. Data is stored as instantaneous values and as two averages, one common for all instruments, typically 1 hour, and one specific to each sensors, e.g. 1 minute. The data logger can connect to any number of instruments.



The data logger communicates with NILU's data collection system ADACS via land-line, GSM, GPRS or 4G connections. Using a web browser and a 4G connection the operator has full access via the internet to the data logger including data logger configuration and data display.

Supported sensors

- Environnement SA NO_x, SO₂, O₃, CO, HC, BTEX, PM_{2.5}, PM₁₀ analyzers
- API NOX, SO₂, O₃, CO analyzers, Gas calibrator
- TEI NOX, SO₂, O₃, CO i and C series analyzers
- TEI/R&P TEOM (FDMS) PM_{2.5}, PM₁₀ analyzer
- Ecotech Serenius NO_x, SO₂, O₃, CO analyzers
- Grimm PM₁, PM_{2.5}, PM₁₀ analyzer
- Fidas PM_{2.5}, PM₁₀ analyzer
- MetOne BAM 1020 PM analyzers
- Eberline/Thermo PM analyzers
- Syntech BTEX analyzer
- Peaksimple BTEX software, read from file
- B&K noise sniffer, read from file
- Thies ultrasonic WS/WD anemometer
- Thies precipitation transmitter
- Vaisala WMT700 WS/WD anemometer
- Vaisala WXT520 weather transmitter
- Vaisala PTB210 barometer
- Vaisala HMP155 RH/T probe
- Kimo flow sensor
- Kimo pressure sensors
- Papouch thermometer/hygrometer
- Advantech ADAM 4017, 4117, 4055, 4080, 4015 and 4520 modules
- Logging from a file share



You can plot averaged data as well as instantaneous data.