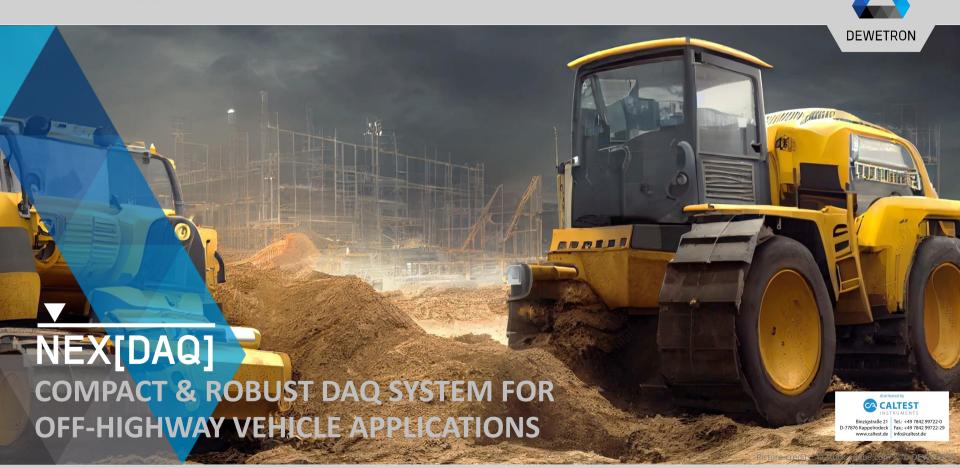
THE MEASURABLE DIFFERENCE.



DO YOU KNOW THESE PROBLEMS?



COMMON MEASUREMENT SYSTEMS...

... often only support one or few dedicated sensor types

... do not provide enough or the right input channels

... are not made for harsh environments

... are difficult to supply in a vehicle

... are often bulky and heavy

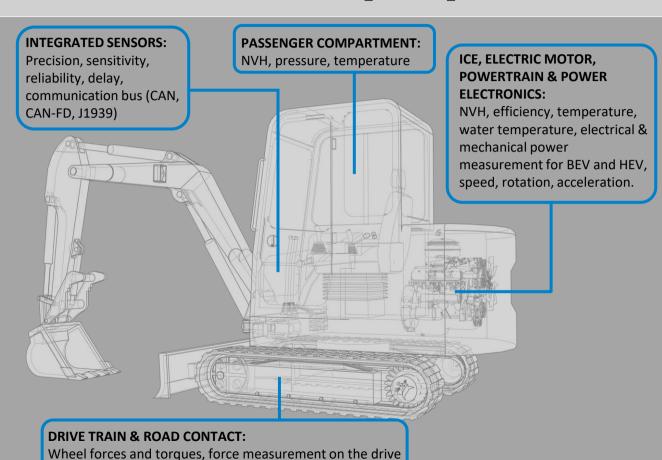
... do not offer SAE J1939





HOW CAN THE NEX[DAQ] HELP YOU?





shafts (also during various driving situations), pressure

ENVIRONMENTAL INFLUENCES:

i.e. exterior noises

FOR ELECTRIFIED VEHICLES:



BATTERY: Cell characterization, charge-discharge-cycles, efficiency, losses, life tests under different conditions, SoH, EoL, electrical power, temperature, range test, powertrain, electrical components, etc.

CHARGING:

Charging and charging infrastructure analysis, efficiency, energy loss, power, charging efficiency, flow rate, electromagnetic compatibility (EMC) with charging stations (harmonics), load profile & charging duration.

NEX[DAQ] APPLICATIONS





THERMAL MANAGEMENT TEST:

The NEX[DAQ] and our XR modules are ideal for thermal management tests, temperature monitoring in the cooling circuit but also for electrical power analysis.



FIELD TESTS:

If you do tests on excavators, bulldozers or other heavy machineries you need a rugged & small DAQ systems several analog and digital inputs as well as counter channels. Also, you need several mounting options. The NEX[DAQ] offers you exactly all those things.



SIMPLE NVH TEST:

Microphones and acceleroemters can be connected for air- and structure borne noise related tests. As the NEX[DAQ] is fanless it can be put close to the DUT to minimize the cable lengths.

NEX[DAQ] APPLICATIONS





POWER MONITORING

The NEX[DAQ] together with a MSI2-V-600 and current clamps is the ideal solution for in-field power measurements on the generator of the DUT. In addition, the signals on the DUT's communication bus can be monitored as reference.



FULFILLMENT OF LABOR REGULATIONS

Strong vibrations and noise are caused by heavy duty machines that can affect the driver. The vibration and noise inside the driver's cabin can be measured to ensure that labor regulations are fulfilled, and the driver is not harmed



COMPONENT TESTS

The NEX[DAQ] can be used to measure strain, force and load on an excavator arm or can measure the pressure at different points in the hydraulic circuit simultaneously. The rugged design allow a mounting on the outside close to the measurement position.

THUS THE NEX[DAQ] IS

the ideal DAQ system...

> to identify the cause of problems - especially when you need several sensors like:

- > Accelerometer
- > Microphone
- > Speed and angle sensors
- > CAN or CAN-FD interface

- > with multiple power supply options:
 - > Power-over-Ethernet oder USB-C
 - > or powered by the vehicle supply or a power bank

> for low-channel-count measurements with per channel sample rate capability up to 1 MS/s



DEWETRON

NEX[DAQ] - the ideal DAQ system because ...







1250 g 2.76 lbs



242 x 120 x 43.3 mm 9.52 x 4.72 x 1.7 in





COMPACT & PORTABLE



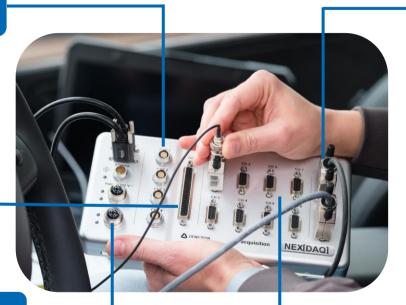


NEX[DAQ] – the ideal DAQ system because ...



4 ADVANCED COUNTER (e.g. for encoder)

8DI + 4D08 COUNTER



SYNCHRONIZATION via Ethernet, PTP, IEEE1588

ETHERNET or USB-C CONNECTION to PC for data transfer

2 interfaces for CAN-FD and XR-module connection





XR modules for low-speed channel expansion, e.g. for many temperature channels.

UNIVERSAL ANALOG INPUT CHANNELS (native direct inputs + additional via MSI)

NATIVE INPUTS













ADDITIONAL INPUT SIGNALS: Every common analog sensor is supported with DEWETRON's MSI sensor adapters











THERMO-

COUPLE

POTENTIO-

METER





CURRENT



CHARGE VIBRATION

NEX[DAQ] – the ideal DAQ system because ...



it is versatile



MOUNTING OPTIONS

You can fix the NEX[DAQ] in the measurement environment in several ways like with belt, DIN rail or screws.



EXPANDABLE

Dasychain multiple NEX[DAQ]s to a multi-channel-system. A single cable is sufficient for data transfer and synchronization via Ethernet PTP/IEEE1588.

NEX[DAQ] - the ideal DAQ system because ...



it already comes with OXYGEN

OXYGEN is our intuitive & easy-to-use measurement software

Standard Software Features:

- Analysis & post-processing
- Visualization
- Math & calculation
- Trigger features
- FFT analysis
- **Export features**
- Reporting
- ... many more features available!

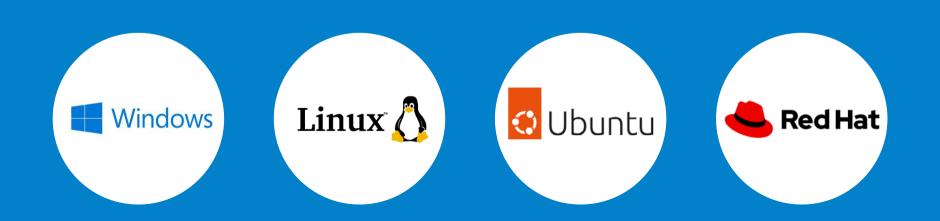


NEX[DAQ] & OXYGEN



OXYGEN runs without restrictions on **Windows** and **Linux** based operating systems.

The Linux distributions Red Hat Enterprise Linux 8 (RHEL8) and Ubuntu are supported.



ABOUT DEWETRON





Founded in 1989



Head Office in Grambach (AT)



Subsidiaries in DE, USA, CN & IN



Since 2016 part of the TKH group



120 employees in more than 25 countries



> 25.000 measurement systems



> 400.000 measurement channels