vMeasure log

Complex and Sophisticated Logging Tasks Made Easy

What is vMeasure log?
Combined with the Vector Logger hardware, vMeasure log is a high-performance and easy-to-use solution for recording measurement data. Various data sources, even high-frequency ones, can be recorded synchronously. Enjoy the benefits of vMeasure exp's wide range of functions as an automotive-compatible stand-alone logger.

The measurement is configured in vMeasure exp. With the measurement tool you can create new logging projects or transfer existing projects to the powerful and robust logger hardware.

vMeasure log supports two operating modes: as an autonomously acting data logger and in connection with a configuration computer as access to the measurement setup. Visualize the measurement data recorded with vMeasure log live in vMeasure exp. Reconfigure the devices, sensors and analog measurement devices connected to the logger with vMeasure exp via vMeasure log. You can monitor the relevant signal values, logger statuses and status messages at any time with your iOS or Android terminal using the mobile user interface.

vMeasure log extends the vMeasure exp functionalities with the administration of the logger hardware and the logging projects. You can find loggers in the local network, install software updates and transfer logging projects. Also, the measurement data stored in the logger can be managed directly from vMeasure exp. You can transfer the recorded measurement data directly to the connected computer or upload it to the server or cloud.

Overview of Advantages
> Convenient and quick handling: Effortlessly switch between stand-alone logging and interactive work with vMeasure exp with the same configuration. There is no need to rewire the hardware, saving you time.

> Customized interface: Use and adapt the configuration with the fully functional an well-known vMeasure exp user interface your configuration to best suit your task at hand. A simple web-based interface allows you to monitor ongoing logging operation.

> Solving complex measurement tasks easier: Real time evaluations, statistical real time analyses and the calculation of virtual signals at runtime are possible due to the computing power of the logger hardware. Complex trigger conditions can be formulated to achieve significant data reduction.

Export the logger project from the familiar vMeasure user interface to the powerful logging hardware. Mobile GUI for stand-alone operation.
Measure everything: vMeasure log supports the bus systems CAN, CAN FD, FlexRay, LIN and Ethernet. The protocols CCP and XCP can be used. The VX1000 measurement hardware is also supported.

More than just a recorder: vMeasure log supports the multi-recorder principle. Configure individual measurement signal lists and trigger conditions for each recorder. Create dedicated measurement files for different measurement tasks with a single measurement.

Customized solution through modularity: Compared to the classic data loggers, vMeasure log supports the complete range of Vector network interfaces. Adapt the logger individually to your measurement task and not the measurement task to the functionality of the logger.

Everything from a single source: Logging software and hardware are optimally matched to each other.

Application Areas
vMeasure log is designed for demanding logging applications that require high-performance and time-synchronous data acquisition from a wide variety of sources. Acquire analog measurement signals, e.g. from CSM ECAT measurement modules (up to 15 MB/s per XCP gateway), or ECU-internal measurement values via the VX1000 hardware. Data rates of several 100 MB/s can be realized, depending on the Vector logging hardware. On runtime vMeasure log calculates specific analyses and uses their results as trigger condition.

It is very easy to create and transfer a measurement project to the logger hardware with vMeasure exp. Already at the creation stage it is checked whether the measurement task can be carried out.

Supported Vector Logger Hardware
Choose the right logging hardware for your task at hand:

- **VN8911**
  - Logger hardware with integrated CAN, CAN FD, FlexRay and LIN interfaces for recording measurement data up to 15 MB/s.

- **VP Family (Available 2020)**
  - With a large number of Ethernet interfaces as well as high-performance processors, these high-end platforms are designed to record large data rates. Complex arithmetic operations can be executed simultaneously at runtime.
  - The VP6000 family is designed for sustained write rates of 500MB/s, the VP7000 family for 2GB/s.

Basic Functions
- The easy to use configuration tool to vMeasure log is vMeasure exp
- High-performant and time synchronized recording of measurement signals from various sources: ECU, analog measurement devices, automotive busses and networks, Video, Audio, and GPS
- Support of description files, even very large ones, such as ARXML and A2L files
- Saving measurement files according to the MDF 4.1 standard
- Complex calculation and online analyze using functions and Simulink models
- Self-diagnostics via function/scripts to validate logging operation
- Mobile GUI to monitor operation