

Kvaser Memorator Professional HS/HS



Kvaser Memorator Professional is a two channel, high performance, CAN bus interface and standalone Datalogger. Standalone mode logs data to an expandable SD card slot; interface mode connects to the PC with USB2.0. With the combined functionality of a standalone Datalogger and USB Interface, the Memorator Professional contains an advanced set of features: Message Filtering, Triggers, Error Detection Mode, Battery Backup, an expandable SD Card slot, Linx J1587 compatible, Auto Transmit, Galvanic Isolation, and much more. Configurable using Kvaser's included Memorator Tools software.

As a data logger, the Kvaser Memorator Professional is the perfect tool to capture irregular faults in the field or perform remote diagnosis. A great advantage is that all configurations are made with a user-friendly configuration program and are stored on the flash disk. It makes it both easy and convenient to set configurations with the PC and download it to Kvaser Memorator Professional for use in the field. The Kvaser Memorator Professional has a USB connection and can be used as a powerful USB CAN bus interface (like our [Kvaser USBcan Professional](#)).

Functions in Kvaser Memorator Professional

Triggers and Data Logger capabilities

- Kvaser Memorator can log continuously, or logging can be triggered by creating advanced triggers based on messages, data signal values, error messages, external trigger's falling or rising edge, and I/O signals.
- Pre- and post-triggers are available without buffer size restrictions, limited by disk space only.
- Handles up to 20 000 msgs/s in standalone logger mode.
- Transmit messages to the bus network.



- External digital output that can drive a LED or a buzzer.
- < 250 ms boot up time.
- Supports Silent Mode - log bus traffic safely without interfering and "listen-only" mode for bus analysis tools.

Filters

- Kvaser Memorator Professional can filter out selectable messages and/or signals to be logged. The identifiers can be picked from a database, or all messages can be logged.
- Support for pass as well as stop filters.
- Create a counting pass filter to have a message logged at enumerated occurrence.

Memory cards and functions

- Standard MMC or SD type flash memory cards can be used - up to 2GB.
- Support for 16GB SDHC cards. Larger SDHC cards supported in the future - up to 32GB.
- Set up several devices in a daisy chain for larger logging capacity.
- Transfer recorded data over the USB interface at 1.4 MB/s or an SD card reader at 15 MB/s.

Configuration software in the PC

- Easy to use graphic configuration tool - Kvaser Memorator Professional Setup Tool.
- Configuration of the CAN controller, i.e. bit rate and filters.
- Configuration of the trigger conditions.
- Configuration of filter for messages to be stored.
- Configuration upload and download via USB.
- Using the included Kvaser Dispatcher software, a complete measurement setup can be turned into a self-installing package that is sent to a remote location to carry out a specific logging task.

Major features of Kvaser Memorator

- One device for desktop and laptop.
- Functionality of a standalone CAN bus data logger and a USB CAN bus interface in a single device.
- Support for Kvaser Linx J1587.
- Driver support for major operating systems.
- Quick and easy plug-and-play installation.
- Supports both 11-bit (CAN 2.0A) and 29-bit (CAN 2.0B) identifiers.
- CAN messages are time-stamped with 2 microseconds resolution.
- Large on-board RAM buffer for CAN messages.
- 100% compatible with applications written for Kvaser Leaf, LAPcan, PClcan, PCcan, USBcan, etc., with Kvaser's CANlib.
- Two CAN connections ISO-11898-2 high-speed, 10 kbit/s up to 1 Mbit/s.
- Galvanic isolation to protect the hardware.
- 130mA current consumption.
- Operating temperature range from -40 to + 85 C
- Power from CAN bus or from the USB side.



- Built-in real time (calendar) clock with battery backup.
- Logger status is indicated with five externally visible LEDs.
- Plastic housing with dimension W*L*H about 50*90*25 mm (circa 2 x 3,5 x 1 inch)

Additional software and documentation

- [Kvaser CANLIB SDK](#), which includes everything you need to develop software for the Kvaser CAN boards. Includes full documentation and many program samples, written in C, C++, C#, Delphi, and Visual Basic. All Kvaser CAN interface boards share a common software API. Programs written for one board type will run without modifications on the other board types!
- J2534 Application Programming Interface
- RP1210A Application Programming Interface
- On-line documentation in Windows HTML-Help and Adobe Acrobat format.
- Documentation, software and drivers can be downloaded for free at www.kvaser.com or purchased separately on CD if preferred.

Technical Data

Kvaser Memorator Professional HS/HS

Galvanic Isolation	Yes
Bitrate	10-1000 kbit/s
Silent mode	Yes
Error frame generation	Yes
Error frame detection	Yes
Weight	150g
Timestamp resolution	2 s
On board buffer	Yes
Maximum message rate, send	20000
Maximum message rate, receive	20000
Sound	No
Clock synchronization	MagiSync
Dimensions (WxLxH)	50x90x25mm
Temperature range	-40 C to +85 C
Order number	73-30130-00351-4

The information herein is subject to change without notice

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