



## KVASER MEMORATOR R SEMIPRO

EAN 73-30130-00490-0

Kvaser Memorator R SemiPro is an advanced, rugged, two channel CAN (controller area network) to USB interface and standalone data logger - two products in one! To ruggedize the design, Kvaser has soldered the SD card to the PCB to make sure it works error free even when exposed to vibration and shocks. Galvanic isolation and an aluminium housing complete the package. In standalone mode, this device logs data to an SD card, whilst in interface mode, it connects the CAN bus to the PC via USB. Connect this datalogger to a PC to configure baud rates, trigger conditions and filters using the Kvaser Memorator Tools software, included.

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## Major Features

- One device for desktop and laptop, combining a standalone CAN bus data logger and a USB CAN bus interface.
- 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.
- Two high-speed CAN channels (compliant with ISO 11898-2), 10kbit/s up to 1 Mbit/s.
- Galvanic isolation to protect the hardware.
- 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.
- Driver support for major operating systems.
- Support for Kvaser Linx J1587.
- IP65 rated lightweight aluminium housing protects against dust and moisture.

## Filters

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

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

## Memory Cards and Functions

- One fixed 4GB memory card.
- Set up several devices in a daisy chain for larger logging capacity.
- Upload logged data via USB at 1.2 MB/s when connected via USB 2.0 HiSpeed.

## Configuration Software in the PC

- Easy-to-use graphic configuration tool - Memorator Tools.
- 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.



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## Technical Data

Bitrate	10-1000 kbps
Temp Range	-40 - 85 °C
Timestamp	2
Messages Per Second Receive	20000 mps
Messages Per Second Sending	20000 mps
Weight	190 g
Length	200 mm
Height	20 mm
Channels	2
Certificates	CE, RoHS
Interfaces	USB
Categories	PC Interfaces, Dataloggers
OS	Windows 10, 8, 7, Vista, XP, and Linux
Connectors	DSUB 15
Buffers	Auto RX Buffers, Auto TX Buffers, On Board Buffer
Galvanic Isolation	Yes
Error Frame Generation	Yes
Error Counters Reading	Yes
Silent Mode	Yes
Material	Aluminium
Sound	No
Current Consumption	1W

### WARRANTY

2-Year Warranty. See our General Conditions and Policies for details.

### SUPPORT

Free Technical Support on all products available by contacting [support@kvaser.com](mailto:support@kvaser.com)

### SOFTWARE

Documentation, software and drivers can be downloaded for free at:

[www.kvaser.com/downloads](http://www.kvaser.com/downloads)

Units are shipped with Kvaser TRX, a lightweight development environment.

Kvaser CANlib SDK is a free resource that includes everything you need to develop software for the Kvaser CAN interfaces. 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 interface type will run without modifications on the other interface types!

J2534 Application Programming Interface available.

RP1210A Application Programming Interface available.

Online documentation in Windows HTML-Help and Adobe Acrobat format.