PM-200 The Power to Log
The all-in-one data logger for the entire vehicle networking

The PM-200 sets the bar considerably higher on the topic of safeguarding and troubleshooting vehicles. Bus systems such as CAN, CAN-FD, FlexRay™, LIN and Automotive Ethernet are logged at a data speed up of to 120 MB/s. SSD removable media allow for quick evaluation and distribution of the data. Various upgrade options enable configuration for any application. Flexibility, programmability and support from debugging protocols make it possible. PM-200 is offering a software option of collecting and analyzing debug messages and valuable information from infotainment ECUs via Diagnostic Log and Trace (DLT) protocol. This standardized logging and tracing software component,based on the AUTOSAR 4.0 standard, helps to consolidate the existing variety of logging and tracing protocols on one format.

KEY BENEFITS

Comprehensive data logging with central timestamp (1 µs) and 120 MB/s data speed

Replaceable SSD

Extensive interfaces & extension modules via Ethernet

Flexible upgrades

Efficient power management (sleep mode up to 100 µA) and logging of wakeup process

Freely programmable using C/C++

Support from debugging/ multimedia protocols (CCP/ XCP, ESOtraces, GNLogs)

Open data format for evaluation purposes on numerous applications

Diagnostic Log and Trace protocol specified by AUTOSAR 4.0 available as a software option

FEATURE SET

Highlights

SSDs in durable clip-on frames make handling large amounts of data a breeze, especially for fleets

Flexible upgrades via modular design: direct connection of 2 or up to 7 TAPs via a switch
PT-15B: 12 × 100Base-T1 (BroadR-Reach) up to 6 Ethernet lines
PT-20MG: 6 × 1000Base-T1 (BroadR-Reach) up to 3 Ethernet lines

Fast data interfaces (Ethernet PC and USB 3.0) to exchange data, device coupling and external storage media
Implement individual functions using Eclipse IDE (C/C++) and extensive API

Open data format for evaluation purposes on numerous applications

Diagnostic Log and Trace protocol specified by AUTOSAR 4.0

Collected data typically stored in TTTech Auto trace log (.TTL) but real-time extraction in standard DLT format and plain text file format (ASCII) available

Both Internet protocols IPv4 and IPv6 supported

Default gateway address can be configured, as well as VLAN tag

PM-200 allows to configure and run multiple DLT clients at the same time

Auto-reconnect mechanism available to ensure reconnection to DLT daemon in case of any interruptions in communication, where user is able to define auto reconnect timeout

Data Visualization via WLAN

Freely configurable, real-time presentation of signals while logging

Support for Windows, iOS & Android

Data transfer over optional WiFi module

Filter, Trigger, Classing Functions

Parallel to optional "get-it-all" logging, based on signal or bus

Logging and analysis for CAN, FlexRay, LIN, and Ethernet interfaces as well as for analog and digital inputs

Trip recorder functions for periodic and results-based data logging

Automatic and conditional data logging via defined trigger conditions

Statistical data analysis with global (persistent) and measurement-related data in 3 dimensions available

THE POWER TO LOG

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Device specifications

PC INTERFACES	1 x USB 2.0 High Speed / Master
	1 x USB 3.0 Super Speed / Master (can be used as logging medium)
	Ethernet (10/100/1000 MBit/s) for quick data transmission to PC 1 x
	1 x Remote Control Interface
VEHICLE INTERFACES	12 x CAN (high speed)
	Optional upgrade with 12 x CAN/CAN-FD
	3 x FlexRay (channels A/B synchronous and asynchronous respectively)
	12 x LIN
	15 x analog inputs (12 Bit)
	15 x digital inputs (interruptible)
	6 x RS232 6 x digital outputs +
	3 x analog outputs
	2 x Ethernet 1000 MBit/s with hardware time stamp of 1µs
OPERATING TEMPERATURE	-40°C to +70°C
POWER USE	1.7A (operating) up to 100 µA (sleep modus) (tentative)
OPERATING VOLTAGE	6 V to 32 V (protects against outage due to strain)
DIMENSIONS	200 × 280 × 80 mm (L x B x H, height tentative)
WEIGHT	3.2 kg (tentative)

ORDER NUMBERS	PM-200 Enhanced	13164	Option Extended Protocols	12814
	PS-0S Enhanced	13165	Option Filter, Trigger, Classing	12815
	PS-1000SC Enhanced	13169		
	PS-128SI Enhanced	13467	Option GPS	12833
	PS-512SI Enhanced	13166	Option Video	12832
	PT-20MG	13239	Option Audio	12834
	PT-15B BroadR-Reach Ethernet Upgrade	12761	Option Remote Control	
	Option +12 CAN/CAN-FD incl. acknowledgement	12811		
	Option Visualization incl. WLAN	12810		