

μEEP-12

Typ CMEP1A...

Data Acquisition and Evaluation

High-performance data acquisition and evaluation systems for mobile vehicle testing applications.

- Parallel-synchronous data acquisition for various signals, such as CAN, analog, counter, digital, GPS (optional)
- Compact size
- DSP processor
- Expandable with temperature and strain gages (optional)
- Extended temperature range from -20 ... 85 °C available
- User friendly high-performance software for data acquisition and evaluation

Description

Using a combination of acquisition hardware with a tablet PC or notebook, the μEEP-12 systems offer a new dimension of online vehicle testing.

The housing of the new μEEP-12 systems is designed to be identical with the new sensor generation, which guarantees a firm connection of the electronics housing with the μEEP-12 unit.

μEEP-12 systems are equipped with all interfaces that modern communication requires.

The operating software ARMS sets new standards, guiding the user through his application. Various standard tests are already included in the software. The software also generates tables and customer reports. All functions can be modified by the customer, thus allowing the creation of individualized tests.

Application

Data acquisition and evaluation for mobile vehicle testing. Suited for longitudinal and transversal dynamic driving maneuvers, e.g. ISO 4148.



8 channel version μEEP-12/8

16 channel version μEEP-12/16

Technical Data

8 or 16 Analog Inputs (differential, single-ended)

Input voltage range (adjustable)	mV ... V	50 ... 60
Sampling rate per channel max.	kHz	50
Input impedance	GΩ	>1
Linearity	%	<0,05
Zero offset drift	LSB	2
Bandwidth (various filters adjustable)	kHz	8

4 Counter Inputs (CNT)

Sampling rate per channel max.	kHz	50
Input impedance	KΩ	100
Bandwidth max.	kHz	500
Level		TTL compatible
Overvoltage protection max.	V	±50

4 Switch Inputs

Sampling rate per channel	kHz	10
Level		TTL compatible
Overvoltage protection max.	V	±50

Digital Outputs

Output level		TTL
Max. output current		
low	mA	15
high	A	0,7
Response time	ms	<100

Interfaces

CAN (Motorola/Intel)		2.0B
Ethernet (RJ45)		yes

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Technical Data (Continuation)

Storage

Flash card, max.	GB	16
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System specifications

Power supply ¹⁾	V	10 ... 32
Power consumption at 12 V	W	12
Temperature range		
Standard (non-condensing)	°C	-10 ... 55
Extended (condensing)	°C	-20 ... 85
Dimensions (WxHxD)		
8 channel version, μEEP-12/8 (approx.)	mm	182x125x172
16 channel version, μEEP-12/16 (approx.)	mm	286x125x172
Weight		
8 channel version, μEEP-12/8 (approx.)	kg	3,5
16 channel version, μEEP-12/16 (approx.)	kg	5

¹⁾ available at the measurement inputs for sensor supply; additional, small built-in UPS for absorbing voltage drops

Included Accessories

- CF card 2.0 GB ET
- Power cable
- Distribution cable, D-Sub, 2 x BNC, l = 1 m
- Adapter 9 pin D-Sub, 2 x BNC counter
- Adapter 6 pin Lemo, 4 x BNC
- Connection cable CAN, l = 5 m

Type/Art. No.

- KCD16706
- KCD17360
- KCD10521
- KCD10003
- KCD10001
- KCD12993

Additional for μEEP-12/8

- Calibration report μEEP-12/8

Type/Art. No.

- KCD16935

Additional for μEEP-12/16

- Calibration report μEEP-12/16

Type/Art. No.

- KCD16934

Optional Accessories

- μEEP-12 temperature module, 8 channel ET
- Tablet PC
- Holder tablet PC

Type/Art. No.

- KCD16832
- KCD16689
- KCD17044

Ordering Key

Analog Inputs

8*	1
16	2

Sampling Rate

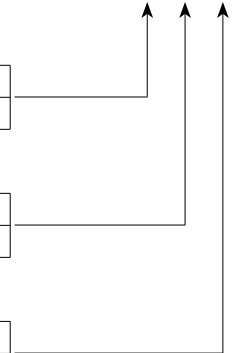
500 Hz*	1
50 kHz	2

Temperature Range

Standard -10 ... 55 °C*	1
Extended -20 ... 55 °C	2

* Standard configuration

Type CMEP1A



Ordering Example*

Type CMEP1A111

μEEP-12/8 with 8 analog inputs, 500 Hz sampling rate, Standard temperature range -10 ... 55 °C

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