CORRSYS DATRON Sensorsysteme GmbH
A Kistler Group Company

µEEP 12

High-Performance Data Acquisition and Evaluation System

for

Vehicle Testing Applications

- Parallel-synchronous data acquisition for various signals, such as CAN, analog, counter, digital, GPS (optional)
- Expandable with temperature and strain gauges (optional)
- Extended temperature range from -20°C ... +85°C available
- Online vehicle testing software

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

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

The µEEP 12 is equipped with all interfaces that modern communication requires.

The operating software 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.

µEEP-12-8 (8 analog channels)

Article no.:

µEEP 12-8/50 kHz	**16685**
µEEP 12-8/500 Hz	**16681**

extended temperature range:

µEEP 12-8/50 kHz ET	**16687**
µEEP 12-8/500 Hz ET	**16684**

µEEP-12-16 (16 analog channels)

Article no.:

µEEP 12-16/50 kHz	**16686**
µEEP 12-16/500 Hz	**16682**

extended temperature range:

µEEP 12-16/50 kHz ET	**16688**
µEEP 12-16/500 Hz ET	**16683**

Typical Technical Specifications

Supply	Power supply 10 ... 32 V DC +5 V and +12 V available at the measurement inputs for sensor supply. Additional, small built-in UPS for absorbing voltage drops.
Temperature Range	Standard: -10 ... +55°C (non-condensing) Extended: -20 ... +85°C (condensing)
Storage	Storage via flash card up to 16 GB
Analog Inputs (differential / single-ended)	
Input voltage rang	±50 mV ... ±60 V adjustable
Sampling rate	up to 50 kHz per channel
Input impedance	> 1 GΩ
Linearity	< 0.05 %
Zero offset drift	2 LSB
Bandwidth	8 kHz (various filters adjustable)
Counter Inputs (CNT)	
Sampling rate	up to 50 kHz per channel
Input impedance	100 KΩ
Bandwidth	500 kHz max.
Level	TTL compatible
Overvoltage protection	up to ±50 V
Digital Inputs	
Sampling rate	10 kHz per channel
Level	TTL compatible
Overvoltage protection	up to ±50 V
Digital Outputs	
Output level	TTL
Max. output current	low: 15 mA / high: 0.7 A
Response time	< 100 ms
CAN	CAN 2.0B
Dimensions (h x w x d)	
µEEP 12-8 (8-channel version)	125.4 x 181.9 x 172 mm
µEEP 12-16 (16-channel version)	125.4 x 286.4 x 172 mm
Weight	
µEEP 12-8 (8-channel version)	approx. 3.5 Kg
µEEP 12-16 (16-channel version)	approx. 5 Kg

Common µEEP 12 Features:

- Compact Size
- DSP Processor
- differential analog inputs, optically isolated (8 or 16, depending on device type)
- 2 x CAN-Bus
- 4 counter inputs
- 4 Switch inputs (up to 12 additional digital inputs)
- Sync connector for sensor synchronization
- Connector for 5 Hz GPS receiver (optional)
- Connector for Modem
- Storage via compact flash card
- Ethernet
- TEDS compatible
- Small UPS inside

µEEP 12 8-channel version

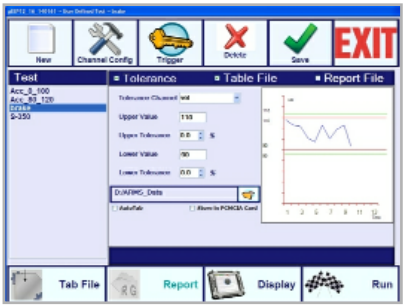
µEEP 12 16-channel version

Online Software includes:

- Vehicle data base
- Sensor data base for easy channel configuration
- Tolerance curve
- Online calculated channels include a huge library of mathematical functions
- CeCalWin Pro menu
- Display of parameters in curve, digital, speedometer, etc.
- Table generation, user selectable
- Reports including data curves, tolerance curve, table, vehicle configuration, comments, etc.

New Software for Vehicle Dynamics Testing

ARMS



Maneuvre setup and planning, data acquisition and evaluation for driving dynamics tests. Includes 40 predefined maneuvres.

Temperature Module

for Extension of the µEEP 12 Data Acquisition System

- 16 Bit resolution
- Synchronous acquisition of all measurement channels
- 8 isolated temperature inputs
- Fail-safe signal transmission via internal CAN
- Power supply via µEEP 12
- Minimum wiring effort

Typical Technical Data

Data rate:	up to 500 Hz
Thermo elements:	Type K
Measurement deviation:	±0.2 K typ. / <±0.5K max.
Drift:	$\pm 0.02 K/K \cdot \Delta T_a$
Deviation of reference point compensation:	< ±0.15K max.
Drift of reference point:	$\pm 0.001 K/K \cdot \Delta T_j$
Power consumption:	4.0 W typ. / <4.6W max. / 12 V DC
Operating temperature:	-40°C ... +85°C
Power supply:	10 ... 32 V (via µEEP 12)

µEEP 12 Temperature Module

Article no.:
µEEP12 Temp. Module **16832**

Tablet PC

for Display and Control of µEEP 12

- Tablet PC with revolvable display
- Special outdoor display with touch function
- Windows® XP (32 Bit) operating system
- Car power adapter included
- Carrying case for extended mechanical protection
- Optional solid state hard disk

Typical Technical Data

Power / Battery:	6-cell 42W/Hr Li-Ion
Memory:	2 GB
Processor:	Intel® Core™ 2 Duo
Operating System:	Windows® XP (32 Bit)
Interfaces:	USB, 1394, WiFi, Express Card, 3D Slot, VGA, Scrollpad, RJ-45, Fingerprint Scanner
Dimensions:	25.40 x 297.18 x 218.44 mm (1.00 x 11.7 x 8.6")
Weight:	Starting 1.61kg (3.57lbs) with 4-cell battery (weights will vary depending on configurations and manufacturing variability.)

Tablet PC

Article no.:
Tablet PC **16689**

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In a continuous effort to improve our products, CORRSYS-DATRON reserves the right to change specifications without prior notice.

CORRSYS-DATRON
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CORRSYS-DATRON Sensorsysteme GmbH
P.O. Box 1349 • 35523 Wetzlar / Germany
Phone: +49 64 41 92 82 0
Fax: +49 64 41 92 82 17

www.corrsys-datron.com
sales@corrsys-datron.com

KISTLER
measure. analyze. innovate.

Kistler Instrumente AG
P.O. Box • CH-8408 Winterthur / Switzerland
Phone: +41 52 224 11 1
Fax +41 52 224 14 14

www.kistler.com
info@kistler.com