



# μEEP-11

## Stand-Alone High-Performance Data Acquisition and Evaluation System

### for **Mobile, On-Board Vehicle Testing Applications**

- Parallel-synchronous data acquisition for various signals, like CAN-Bus signals, analog signals, and frequency signals
- Adaptable to task via modular concept and decentralized structure
- Easy-to-use, high-performance software for data acquisition and evaluation

The μEEP-11 incorporates a new processor that ensures a non-problematic use of the system with Windows® 2000, the data acquisition software "Turbolab Dynamics Software", and the analysis software "Turbolab Analysis".

As the μEEP-11 has a number of inputs and a sampling rate of 1 ms for all channels, this system is ideally suited for all types of dynamic tests.

All μEEP-11 offer the following features:

- 2 x CAN-Bus
- 2 x USB-Interface
- Pentium Processor III, 700 MHz
- Windows® 2000 with data acquisition software Turbolab "Dynamics", CAN compatible
- Uninterruptible power supply
- Differential and single-ended inputs



**Article no.:**  
**μEEP-11 11999**

## Typical Technical Specifications

The total system is cooled with a 36m<sup>3</sup>/h air flow • Special side panels provide prevention of an unintended covering of the air apertures • The current μEEP-11 version is designed for use with Windows® 2000\*.

### Supply

Large-scale power supply unit with 75 W power output at min. 90 % efficiency • 9 ... 36 V input voltage, power consumption max. 5A • Uninterruptible power supply up to 20 minutes back-up time • Reverse polarity protection up to 40 V, overvoltage protection

### Processor

Smart-Core pentium III embedded 700 MHz • SDRAM min. 128 MB • 256K second level cache

### Temperature Range

5° ... 55° C, depending on the used data storage medium

### Storage

2.5" hard drive min. 10 GB  
Optional E-disk up to 17 GB, 1500 G 0.5 s, Mil-temp -10 ... +60°C

### Interfaces

LPT 1 parallel port  
COM1, COM 2 for Datron LCD Terminal  
LAN Ethernet Intel 82559 ER  
2 USB Ports  
2 CAN  
Powermanagement

### Analog Inputs (differential / single-ended)

Input voltage range	±10 V
Total sampling rate	200 kHz
Input impedance	10 MΩ
Overvoltage protection	35 V DC
Resolution	12 bit (2.44 mV @ 10 V, 4.88 mV @ 20 V)
Linearity	±1 Bit
Sensor power supply	15 V, 300 mA self-healing 5 V, 300 mA self-healing

### Frequency Inputs (8)

Level	RS 485 compatible
Input frequency	max. 250kHz
Pulse width	min. 1 μs
Sensor power supply	15 V, 300 mA self-healing 5 V, 300 mA self-healing

### Status Inputs

Signal level	TTL compatible
Input pulse width	min. 200 μs
Input frequency	max. 3 kHz

### Digital Outputs

Short-circuit proof 8 outputs  
TTL-level for Thermoscanner, Multiplexer etc.

Dimensions	490 x 152 x 234 (w x h x d)
Weight	approx. 6000 g

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**CORRSYS-DATRON**  
www.corrsys-datron.com

**International Headquarters**  
CORRSYS-DATRON Sensorsysteme GmbH  
P.O. Box 1349 • 35523 Wetzlar / Germany  
Phone: +49-6441-9282-0  
Fax: +49-6441-9282-17  
e-mail: sales@corrsys-datron.com

**North American Headquarters**  
CORRSYS-DATRON Sensorsystems Inc.  
40000 Grand River, Suite 503 • Novi, MI 48375 • USA  
Phone: 248-615-2035 • Toll-free: 800-832-0732  
Fax: 248-615-2184  
e-mail: USA-sales@corrsys-datron.com

**Chinese Headquarters**  
CORRSYS-DATRON Sensorsysteme GmbH - China  
Room 610, JinTianDi International Mansion,  
No. 998 RenMin Road, Shanghai (200021), P.R.China  
Phone: ++86-21-63114144 • Fax: ++86-21-63114154  
e-mail: Xiaoying.Li@corrsys-datron.com.cn