



DAS-3

for Vehicle Dynamics Measurement with CORREVIT® Sensors

- Quick and easy mounting of the complete measurement system in the vehicle
- Online display of up to 3 measured variables and 5 measurement values upon completion of the measurement
- Optional LED display with large, easy-to-read values – displays up to 3 user-selectable measurement values simultaneously
- Operating control via DAS Control & Display Unit
- All channels can be used as triggers
- Internal storage of up to 8 GByte of measurement data
- Inputs:
 - 1 input for CORREVIT® Sensors
 - 6 counter inputs
 - 8 analog inputs, 16 bit
 - Adjustable sampling rate, max. 1000 samples/sec (per channel)
- Variable connection options for sensors (acceleration sensor, pedal force sensor, RPM and flow meter, wheel incremental transducer), CAN Modules
- CAN 2.0B, USB 2.0 Full Speed, RS232, Ethernet
- Supply voltage for active sensors via DAS-3
- Graphical presentation and processing of the measurement data with TurboLab Signal Analysis (optional)
- Direct communication between PC and DAS-3 via serial interface, USB or Ethernet for configuration of the measurement application using CeCalWin Pro DAS Software
- Optional simulator with digital, analog and switch functions for testing of measurement configurations



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The DAS-3 Ultra-Compact, In-Vehicle Data Acquisition and Evaluation System represents the next logical step in the evolution of the proven CORRSYS-DATRON DAS-2A Compact Data Acquisition System, and is optimized for these and other vehicle dynamics testing applications:

- Braking distance measurement
- Acceleration measurement
- Coast-down test
- Fuel consumption measurement
- Determination of v_{max}

The new DAS-3-System consists of a base data acquisition module, and a control and display unit. The base module incorporates two primary components: an acquisition module and a processor module. The base module also includes Ethernet, USB, COM and connections for additional displays (e.g., the CORRSYS-DATRON LED Display). This new design enables simple, cost-effective expansion of the unit's functionality. Optional extension modules can be easily connected to the base module.

Operation, parameterization and online data display are achieved via the proven DAS Control & Display Unit. System parameters also can be set up using a connected PC running CORRSYS-DATRON CeCalWin Pro Software. Used with TurboLab Analysis software, it is a powerful and easy-to-use tool for professional data acquisition and evaluation.



Typical Technical Data

Channels:	1 input for CORREVIT® Sensors - TTL 6 frequency channels - switchable between frequency measurement, counter, cycle duration measurement, pulse duration - expansion with additional modules - cutoff frequency min 100 kHz - TTL - overvoltage protection 8 differential analog channels - extensible by a second module (8 analog, 4 counter) - 16 bit resolution - input voltage range -10 ... +10 V - adjustable gain factors, bipolar - maximum sampling rate 1 kHz per channel 2 switch inputs - galvanically isolated, max. input voltage 24 V
	connectors are compatible with existing sensors
Storage:	Compact Flash memory card (up to 8 GB storage capacity)
CAN Bus:	2.0B, baud rate from 5 KBd ... 1 MBd
Power supply:	9 ... 26 V with reverse polarity protection, reversible fuse and control LED
Protection standard:	IP20 min.
Temperature range:	operation: -20° ... 50° C storage: -20° ... 70° C

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