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 1 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 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 for configuration of the measurement application using CeCalWin DAS Software
- Optional simulator with digital, analog and switch functions for testing of measurement configurations
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 $v_{\text{max}}$

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-2 Control & Display Unit. System parameters also can be set up using a connected PC running CORRSYS-DATRON CeCalWin DAS 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
- switchable between frequency measurement, counter, cycle duration measurement, pulse duration
- 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:**
- upgradeable measurement data memory
- (up to 1 GB storage capacity)

**CAN Bus:**
- 2.0B, baud rate 125, 250, 500 kBaud, 1 Mbaud

**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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