SUNSTAR   http://www.sensor-ic.com/ TEL: 0755-83376549 FAX 0755-83376182E-MAIL: szss20@163.com

KISTLER

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DAS-3

Type CDAS3A

Data Acquisition and Evaluation

Designed for vehicle dynamics measurement using 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
- All channels can be used as triggers
- Internal storage of up to 8 GByte of measurement data
- Supply voltage for active sensors via DAS-3

Description

A DAS-3 system consist 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.

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 and display unit. System parameters also can be set up using a connected PC running CeCalWin Pro Software.

Application

The DAS-3 ultra-compact, in-vehicle data acquisition and evaluation systems represent the next logical step in the evolution of the proven DAS-2A data acquisition system, and are optimized for these and other vehicle dynamics testing applications:

- Braking distance measurement
- Acceleration measurement
- Coast-Down-Test
- Fuel consumption measurement
- Determination of v_{max}

Technical Data

Channels

Input channels for Correvit sensors	no.	1 TTL
Frequency channels[1]	no.	6
Frequency limit min.	kHz	100
Level		TTL
Overvoltage Protection		yes
Analog channels	no.	8/16
Resolution	Bit	16
Input voltage range	V	–10 ... 10
Adjustable gain factors		1, 2, 4, 8
Sampling rate per channel max.	kHz	1
Switch inputs, galvanically isolated	no.	2
Input voltage max.	V	24

Interfaces

CAN			2.0B
Baud rate	from	KBd	5
	to	MBd	1
USB (Full Speed)			2.0
Ethernet			yes
RS-232C			yes

Storage

Compact Flash memory card, max.	GB	8

[1] Switchable between frequency measurement, counter, cycle duration measurement, pulse duration – extendable with optional modules

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Technical Data (Continuation)

System Specifications

Power supply[2]	V	9 ... 26
Power consumption at 12 V	W	12
Temperature range		
Operation	°C	–20 ... 50
Storage	°C	–20 ... 70
Protection standard (min.)		IP20
Dimensions base module (WxHxD) approx.	mm	300x230x150
Weight of complete system, approx.	kg	4,4

[2] available at the measurement inputs for the sensor supply; additional small built-in UPS to intercept voltage drops

Fig. 1: DAS-3 with control/display unit

Included Accessories | Type/Art. No.

	Type/Art. No.
• DAS control/display unit	KCD10090
• Sensor connection cable	KCD16357
• Power cable	KCD10398
• CAN cable	KCD12993
• RS-232C cable	KCD10378
• USB cable	KCD13947
• Connection cable	KCD15794
• Connection cable BNC	KCD10521
• Display signal cable	KCD13074
• Adapter BNC Lemo 6 pin, 2 x	KCD10001
• Adapter BNC D-Sub	KCD10003
• Light barrier adapter	KCD12680
• Brake switch adapter	KCD13021
• Card reader	KCD15414
• CF card 8.0 GB	KCD17145
• Multimedia CD	KCD11343
• Transport case, complete	KCD17359

Optional Accessories | Type/Art. No.

	Type/Art. No.
• Extension module 8 analog, 8 counter	KCD15467
• Extension module 16 analog, 8 counter	KCD15416
• Extension module temperature, 16 channel	KCD15421
• Printer	KCD15419
• Light barrier including mount	KCD11356
• Brake switch, cable = 3 m	KCD11200

Further Accessories (e.g. thermo sensors) on request

Ordering Code

• DAS-3 Data Acquisition and Evaluation	**Type CDAS3A**

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