

nxt32

Type K3870

Data acquisition module for crash testing

The nxt32 data acquisition module Type K3870 is a versatile device which is used for simultaneous data recording in crash testing applications.

- Used for nxt in-dummy systems and on-board systems
- 32 analog/16 digital channels
- Lion battery technology integrated
- Shunt check
- Programmable offset compensation
- Daisy chaining of several units without a hub
- Exceeds SAE J211 and ISO 6487
- Direct recording in flash memory



Description

The module can be used as a centralized data recorder inside the crash test dummy e.g. WorldSID 50 % and 5 %. However, the nxt32 can also be used as a plugin module for on-board recorders like the KiDAU family.

Included accessories

- None

Optional accessories

- KiDAU classic on-board adapter
- KiDAU advanced on-board adapter
- WorldSID 50 % nxt installation kit
- WorldSID 5 % nxt installation kit

Art. No.

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Ordering code

- nxt32 – Data acquisition module for crash testing

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Technical data

General data

Input voltage range	V	+5/-2.5
Programmable gain		1 ... 10 000
AD converter	Bits	16
Signal bandwidth, max.	kHz	40
Bridge excitation voltage	V	0 ... 5
Bridge excitation max. rated output	mA	20
Filter		adaptive
Sampling rate, max. (on all channels)	kHz	100
Shunt check		via shunt emulation on 2 quadrants at positive input
Sensor ID verification		Dallas
Recording time (32ch@20kHz), flex. memory	sec.	529
Trigger		recorder and transient modus
Communication		
USB	MBit/s	12
Ethernet	MBit/s	100
Operating voltage	V	19 ... 60
Battery		
Type		Lion
Time for typical usage	min.	10
Memory		flash
Programmable offset compensation		yes
Sense lines		yes
Mass	grams	200
Dimensions (LxWxH)	mm	25x54x85

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