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Stationary KiDAU

Type K3840AS

Digital input

The Stationary KiDAU Digital Input Type K3840AS is an expansion module for the Stationary System Base Unit Type K3800AS. It is characterized by the following technical features:

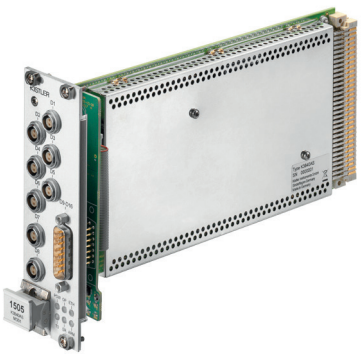
- 16 digital input channels
- 2 isolated input groups
- Compatible with CMOS 5 V output levels
- internal pullups for input signals
- adjustable sample rate up to 100 kHz

Description

The Stationary KiDAU Digital Input has 16 digital inputs that are galvanicly isolated in two groups with 8 inputs each. The maximum sampling rate is 100 kHz. The device can store data for a 1 800 s cycle at a sampling rate of 100 kHz which allows the user to start recording data before the test is actually started. This ensures that the measuring system works correctly and prevents data loss. The trigger point is registered and recorded as in previous systems. An uninterrupted power supply is not needed to retain the data because flash-EEPROMs are used for the memory.

Application

The Stationary KiDAU Digital Input Type K3840AS is a standalone 16 channel digital measurement system for usage under non-crash conditions. It provides comparable performance to the KiDAU Advanced OnBoard Adapter Type K3880C regarding the acquisition of digital signals. Possible applications include – but are not limited to – component tests or recording of digital sensors.



Technical data

Power Consumption, max.	W	15
Weight	kg	0.4
Signal Input Voltage, max	V	0 … 5
Signal Input Threshold		
High level	V	>3.7
Low level	V	<1.1
Signal input, bias voltage		5
Signal input, internal pullup	kΩ	10
Signal input, clamping current, max.	mA	1
Sampling rate, max.	kHz	100
Memory type		Non-volatile, flash
Recording time		
@ 20 kHz	s	9 007
@ 100 kHz	s	1 800
Trigger		double trigger SW start stop
Communication		100Base TX Ethernet

Ordering key

• Stationary KiDAU Digital Input	Type K3840AS

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This information corresponds to the current state of knowledge. Kistler reserves the right to make technical changes. Liability for consequential damage resulting from the use of Kistler products is excluded.

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