



The DAS240 is ideal for measuring and recording common parameters such as voltage, current, temperature, pressure, and more with sampling rates up to 1,000 samples per second. It includes 20 universal analog inputs with convenient screw terminals, and an expandable design to support up to 200 channels. This data logger also provides digital inputs and alarm outputs for process monitoring applications.

Measurements can be viewed graphically and numerically on the IO-inch color touchscreen. Icon driven menus make it easy to navigate through the user interface, and a channel setup screen displays the settings for all channels including measurement type, filter settings, and scaling.

The DAS240 provides LAN connectivity and LabVIEW[™] drivers for remote control and logging data directly to a PC. Free additional software is also available for viewing acquired data, transferring files, and exporting to common file formats.

The DAS240 data acquisition recorder features 32 GB of solid-state memory for recording data over extended periods of time. When equipped with the optional internal battery (-BAT option), the DAS240 can run for up to 15 hours without connecting to external power.

Main applications

- Temperature logging with thermocouples and platinum resistance temperature sensors
- Voltage measurements from ± 0.5 mV to ± 100 V (CAT I 100 V)
- 4-20 mA current loop measurements
- Frequency, pulse totalization and pulse rotation measurements, which can be expressed in RPM (rotations per minute)



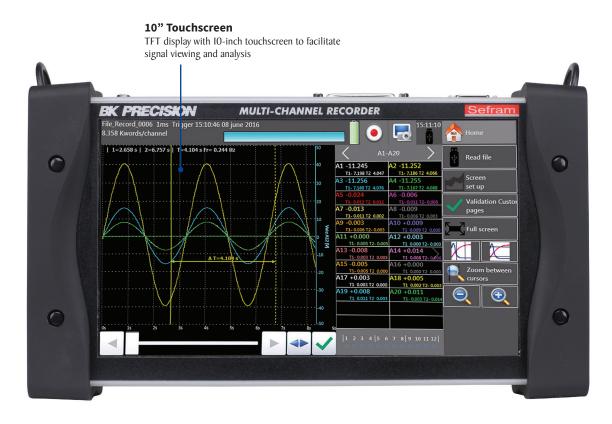
Expandable 20-channel analog modules

Features and benefits:

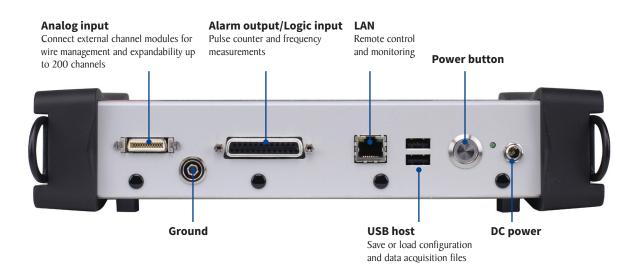
- Wide I0" touchscreen TFT display
- Extended battery life of up to 15 hours (-BAT)
- 20 universal analog input channels, expandable to 200 channels
- Versatile temperature measurements supporting thermocouples and Pt100 / Pt1000 temperature sensors
- Measure voltage to ±100 V, resistance to 10 kΩ and current (with optional shunt input-terminal block)
- I6 bit vertical resolution
- Recording interval (sampling rate) up to I ms
- I2 logic input/output channels
- 4 timing logic input channels for pulse count, frequency and PWM measurements
- 4 alarm outputs
- 32 GB internal solid state memory
- WiFi monitoring and control (standard USB WiFi dongle required)
- 2 USB Host ports and I LAN interface
- Virtual Networking Computing (VNC) capability for replicating the instrument's front panel interface on a PC

Portable Multi-channel data acquisition recorder DAS240 Series

Front panel

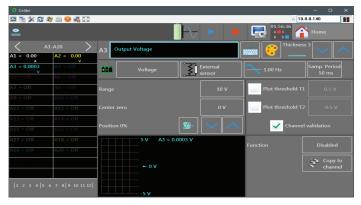


Top input and connection panel



Portable Multi-channel data acquisition recorder DAS240 Series

Flexible operation



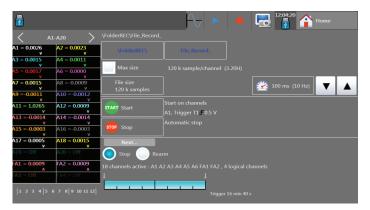
Large display with icon-driven menus for easy setup and operation.

							•		11:26:00	Home	
<	> 1 2 3 4 5 6	789							Reset Min/Max	<	>
CH	Value	Min	Max	CH	Value	Min	Max	CH	Value	Min	Max
	Channel A1				Channel A9				Channel A17		
A1	= 0.0024 _v	-0.0058	0.0050		=-0.0017 _v	-5.0000	0.0038		=-0.0005	v -5.0000	0.0040
	Channel A2				Channel A10				Channel A18		
A2	= 0.0024 _v	-5.0000	0.0040		=-0.0029 v	-5.0000	0.0035		= 0.0008	v -5.0000	0.0040
	Channel A3				Channel A11						
A3	= 0.0017 _v	-5.0000	0.0038		=-0.0040 _v	-5.0000	0.0046				
	Channel A4				Channel A12				Channel A20		
A4	= 0.0015 _v	-5.0000	0.0035		=-0.0021 v	-5.0000	0.0035				-
	Channel A5				Channel A13				Funct A1	_	
A5	= 0.0005 _v	-5.0000	0.0035		=-0.0017 _v	-5.0000	0.0040		= 0.0008	A -0.0058	0.0050
	Channel A6				Channel A14				Funct A2		
A6	=-0.0003 v	-5.0000	0.0040		=-0.0024 _v	-5.0000	0.0040		= 0.0008	A -0.0058	0.0050
	Channel A7				Channel A15						
A7	=-0.0014 v	-5.0000	0.0047		=-0.0014 _v	-5.0000	0.0038				-
	Channel A8				Channel A16				Funct A4		
A8	=-0.0024 _v	-5.0000	0.0038	A16	=-0.0014 _v	-5.0000	0.0040	FA4	= Off		-

Numerical display of measured values



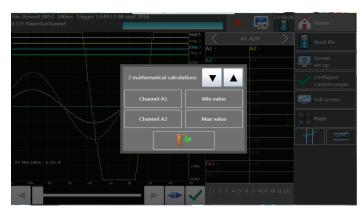
Measurement display with zoom and cursors



Comprehensive triggering capabilities: Configure triggers on analog and logic channels. Select from multiple combinations of thresholds, channels and conditions.

File_Record_0009 2ms Trigger 09:24:27 29 march 2017 1.127 Kwords/channel					🕂 🕨 🕒 🕞 09:33:25 🏠 Home						
<	A1 💽	A2 _O	A3 🔵	A4 0	A5 👝	A6 🔵	Α7 ο	^{A8} O	A9 👩	A10 💿	\rightarrow
Name		Channel A2	Channel A3								Name
Туре		Voltage									Туре
Filter		No filter									Filter
Samp. Period		1 ms	1 ms	1 ms							Samp. Period
Function											Function
Range											Range
Center zero											Center zero
Max.		5 V									Max.
Min.		-5 V	-5 V	-5 V	-5 V						Min.
Threshold T1		0.5 V	0.5 V	0.5 V	0.5 V	0.5 V				0.5 V	Threshold T1
Threshold T2		-0.5 V	-0.5 V	-0.5 V							Threshold T2

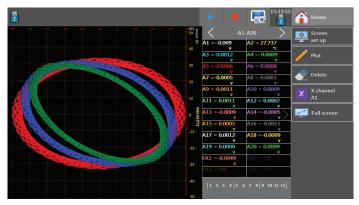
Channel setup displays all parameters on a single screen



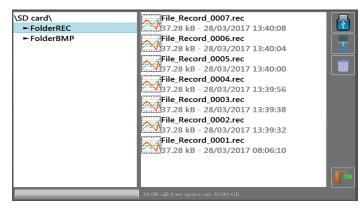
Math calculations between channels

Portable Multi-channel data acquisition recorder DAS240 Series

The tools you need



XY mode for plotting one varying voltage versus another



Internal file management

V2 VNC Viewer	
VNC® Viewer	VS
VNC Server: 192.168.0.114	~
Encryption: Let VNC Server choose	~
About Options	Connect

Virtual Network Computing (VNC) capability

The recorder's built-in VNC capability, based on the Remote Frame Buffer protocol (RFB), provides a graphical desktop sharing system to remotely control the instrument from another computer. VNC is platform independent and provides a means to control all functions of the instrument through a graphical interface replicating the instrument's front panel, using a mouse and keyboard.



Expandable up to 200 analog channels

The DAS240 series provides a flexible and scalable analog channel concept. Each unit is supplied with one 20-channel analog module and 20 screw input terminal blocks. By daisy-chaining additional modules, the total number of channels can be incremented by 20 to a maximum of 200 channels (I0 modules). These modules can be pre-wired to the UUT and stationary in multiple locations while the instrument is moved to each location for recording. This helps with wire management and setup time.

Optional accessories



The 50 Ω shunt can be used to record the output from 4-20 mA loop sensors.



Rugged carrying case



Spare analog input connectors 20 pack



Logic channels patch cord



Isolated logic channel module

Specifications

Analog Channels						
Analog Input Channels	20 standard, expandable to 200 with optional 20-channel modules					
DC Voltage						
Ranges	± (0.5, 1, 2.5, 5, 10, 25, 50, 100) mV ± (0.5, 1, 2.5, 5, 10, 25, 50, 100) V					
Maximum input Voltage	100 V DC					
Accuracy	0.1% of the full scale $\pm 10 \ \mu V$					
Temperature with Thermo	couples					
	J	-210 °C to 1200 °C				
	К	-250 °C to I370 °C				
	Т	-200 °C to 400 °C				
	S	-50 °C to 1760 °C				
Sensors Range by	В	200 °C to 1820 °C				
Type (Cold junction compensation: ±0.5 °C)	E	-250 °C to 1000 °C				
•	Ν	-250 °C to 1300 °C				
	С	0 °C to 2320 °C				
	L	-200 °C to 900 °C				
	R	-40 °C to I500 °C				
Temperature with Pt100 a	nd Pt1000					
Current	I mA (PtI00), 100 μA (PtI000)					
Range	-200 °C to 850 °C					
Measurements	2 and 3 wires					
Accuracy (at 20 °C)	0.3 °C ±0.1% of reading					
Componented Resiston co	2 wires	30 Ω max.				
Compensated Resistance	3 wires	50 Ω max.				
Resistance	1					
Ranges	I k Ω and IO k Ω					
Accuracy	I Ω (range I k\Omega) and I0 Ω (range I0 k\Omega)					
	Logic Channels					
Logic Input/Output						
Number of Channels	12					
Maximum Permitted Voltage	24 V Cat I					
Input Impedance	4.7 kΩ					
Sampling Rate	I ms max.					
Timing Input						
Number of Channels	4 (KI to K4)					
Maximum Permitted Voltage	24 V Cat I					
Input impedance	4.7 kΩ					
Sampling Rate	I ms max.					
Pulse Counter	0 to 10 Million, accuracy 0.1%					
Frequency Measurement	I Hz to I0 kHz, accuracy 0.1%					
PWM Measurement	100 Hz to 2 kHz, accuracy 0.1%					
Alarm Output						
Number of Channels	4 Alarms (A, B, C, D)					
Output Level	0 to 5 V					

Resolution16 bitAcquisition SystemScan, one sample per channelSampling Interval $V > 50 \text{ mV}$ I ms to 20 minSampling Interval $V \le 50 \text{ mV}$, thermocouples and Pt00 / Pt10002 ms to 20 minTriggerDate, delay, threshold, edge level, combination of thresholds (and/or), word on logic channelsPre-triggerVariable from 0 to 100k samplesGeneralInternal Flash Drive Size32 GBMaximum File Size2 GBOperating Temperature0 °C to 40 °C, 80% RH (no condensation)Storage Temperature-20 °C to 60 °CDisplay10° TFT touchscreen LCD, backlit, 1024 x 600 dotsPower SupplyIS V / 4 A max with main adapter (100 / 240 VAC)Interfaces2 x USB host, LAN (10/100 base-T with RJ45 socket)Battery Life (-BAT)Non removable, Lithium-ionTypical Battery Life (-BAT)Is hours with standby mode, 10 hours without stand-by modeWeightDAS240 / 3.3 lbs (1.5 kg)Dimensions (W x H x D)2.6" x 11.7" x 6.9" (66 x 298 x 176 mm)WarrantyTwo YearsSupplied AccessoriesWain adapter 100 / 240 V, 25 pin male connectori" and backshell, 1 cable (70 or) for measurement module (20 channels) with input terminal blocks90240100020-channel analog module with 20 input terminal blocks90240100020-channel analog module with 20 input terminal blocks902401000Currentel analog module with 20 input terminal blocks902401000Currentel analog module with 20 input terminal blocks902401000	Acquisition System					
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DescriptionDAS240 / 3.3 lbs (1.5 kg)DAS240 / 3.3 lbs (1.5 kg)DAS240-BAT / 4.5 lbs (2 kg)Dimensions (W x H x D)2.6" x 11.7" x 6.9" (66 x 298 x 176 mm)WarrantyTwo YearsMain adapter 100 / 240 V, 25 pin male connector ¹⁰ and backshell, 1 cable (70 cm) for measurement module connection, 1 measurement module (20 channels) with input terminals, stylus, soft wipe, screwdriver, calibration certificate and test reportOrder Information for Optional Accessories90240100020-channel analog module with 20 input terminal blocks902401050Analog input terminal blocks 20 pack902401050Analog input terminal blocks 20 pack902407000Logic channels patch cord9024065004 to 20 mA / 50 Q shunt90240900019" rack-mount kit902409500UIS Mains power adapter	Typical Battery Life (-BAT)					
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DAS240-BAT / 4.5 lbs (2 kg)Dimensions (W x H x D)2.6" x 11.7" x 6.9" (66 x 298 x 176 mm)WarrantyTwo YearsSupplied AccessoriesMain adapter 100 / 240 V, 25 pin male connector ¹⁰ and backshell, 1 cable (70 cm) for measurement module connection, 1 measurement module (20 channels) with input terminals, stylus, soft wipe, screwdriver, calibration certificate and test reportOrder Information for Optional Accessories90240100020-channel analog module with 20 input terminal blocks902401050Analog input terminal blocks 20 pack90240000Rugged carrying case902407000Logic channels patch cord90240900019" rack-mount kit902409500US Mains power adapter		DAS240 / 3.	3 lbs (1.5 kg)			
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902407000 Logic channels patch cord 902406500 4 to 20 mA / 50 Ω shunt 902409000 19" rack-mount kit 902409500 US Mains power adapter	902401050	Analog input terminal blocks 20 pack				
902406500 4 to 20 mA / 50 Ω shunt 902409000 19" rack-mount kit 902409500 US Mains power adapter	902408000	Rugged carrying case				
902409000 I9" rack-mount kit 902409500 US Mains power adapter	902407000	Logic channels patch cord				
902409500 US Mains power adapter	902406500	4 to 20 mA / 50 Ω shunt				
	902409000	19" rack-mount kit				
	902409500	US Mains power adapter				
	978553000	EU Mains power adapter				
917008000 Isolated logic channel module	917008000					

 $\ensuremath{^{(l)}}$ User configurable with solder cups



About B&K Precision

For more than 70 years, B&K Precision has provided reliable and value-priced test and measurement instruments worldwide.

Our headquarters in Yorba Linda, California houses our administrative and executive functions as well as sales and marketing, design, service, and repair. Our European customers are most familiar with B&K through our French subsidiary, Sefram. Engineers in Asia know us through our B+K Precision Taiwan operation. The independent service centers in Singapore and Brasil service customers in Singapore, Malaysia, Vietnam, Indonesia and South America, respectively.



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Certification body NSF-ISR Certificate number 6Z241-IS8



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Established in 1947, Sefram has been designing and manufacturing data recorders for more than 70 years. Sefram joined the test and measurement division of Schlumberger in 1978, and has been a subsidiary of B&K Precision since 2004. Certified ISO 9001, Sefram's strategy is to provide innovative and high-quality test and measurement products for electronic and electrical applications.

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