

Portable Multi-Channel Data Recorder DAS240-BAT Series



The DAS240-BAT series measures and records parameters commonly found in process applications including voltage, temperature, current, resistance, frequency and pulse. It includes 20 universal analog channels with convenient screw input terminals that can be expanded up to 200 channels. This recorder was developed by B&K Precision's subsidiary Sefram in France, which specializes in the design and manufacture of data acquisition instruments, field strength meters and other test and measurement instruments.

Measurement results can be viewed graphically and numerically on a IO-inch color touchscreen and saved to internal memory or an external USB memory stick. Icon-driven menus make the instrument easy to navigate. The free DasLab Windows PC software allows users to remotely control and configure the recorder, transfer logging results and configuration files, and view live data in graphical or numerical format on the PC.

The data recorder features 32 GB of solid-state memory for data logging over extended periods. The internal battery provides back-up in the event of power loss (-BAT).

Main applications

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

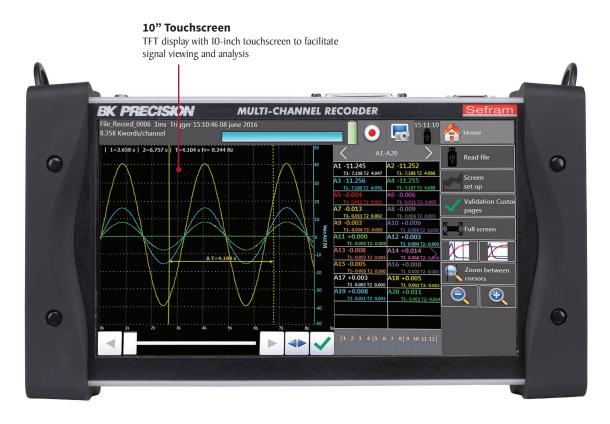


Expandable 20-channel analog modules

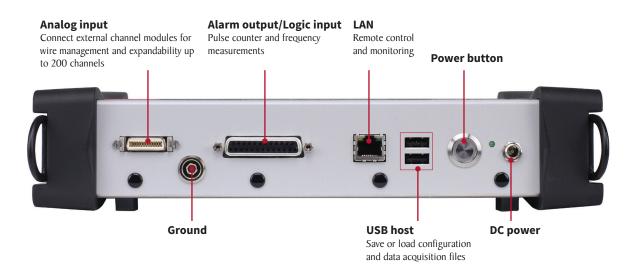
Features and benefits:

- Wide IO" 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
- Free DasLab operating software
- Virtual Networking Computing (VNC) capability for replicating the instrument's front panel interface on a PC

Front panel



Top input and connection panel



Multi-channel data recorder DAS240-BAT Series

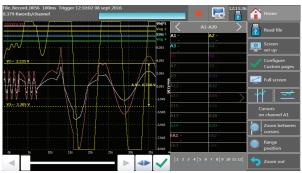
Flexible operation



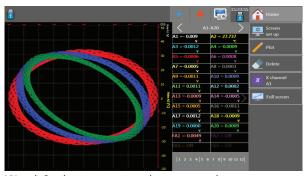
Large display with icon-driven menus for easy setup and operation.

						•	11:26:00	Home	
<							Reset Min/Max		>
CH	Value	Min	Max	Value	Min	Max	Value	Min	Max
A1	channel A1 = 0.0024 v	-0.0058	0.0050	Channel A9 =-0.0017 v	-5.0000	0.0038	Channel A17 =-0.0005	v -5.0000	0.0040
A2	Channel A2 = 0.0024	-5.0000	0.0040	Channel A10 = -0.0029	-5.0000	0.0035	Channel A18 = 0.0008	v -5.0000	0.0040
A3	Channel A3 = 0.0017 v	-5.0000	0.0038	Channel A11 =-0.0040	-5.0000	0.0046			
A4	Channel A4 = 0.0015	-5.0000	0.0035	Channel A12 =-0.0021 v	-5.0000	0.0035			
AS	Channel AS = 0.0005	-5.0000	0.0035	Channel A13 =-0.0017	-5.0000	0.0040	Funct A1 = 0.0008	A -0.0058	0.0050
A6	Channel A6 =-0.0003	-5.0000	0.0040	Channel A14 =-0.0024 v	-5.0000	0.0040	Funct A2 = 0.0008	A -0.0058	0.0050
A7	Channel A7 =-0.0014 v	-5.0000	0.0047	Channel A15 =-0.0014	-5.0000	0.0038			
A8	Channel A8 =-0.0024	-5.0000	0.0038	Channel A16 =-0.0014	-5.0000	0.0040			

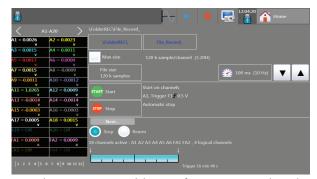
Numerical display of measured values



Measurement display with zoom and cursors



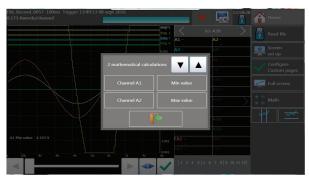
XY mode for plotting one varying voltage versus another



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



Channel setup displays all parameters on a single screen



Math calculations between channels

\SD card\	File_Record_0007.rec	
► FolderREC	37.28 kB - 28/03/2017 13:40:08	
► FolderBMP	File_Record_0006.rec	-
	37.28 kB - 28/03/2017 13:40:04	
	File_Record_0005.rec 37.28 kB - 28/03/2017 13:40:00	l mîr l
	File_Record_0004.rec	
	37.28 kB - 28/03/2017 13:39:56	
	File_Record_0003.rec	
	37.28 kB - 28/03/2017 13:39:38	
	File_Record_0002.rec	
	37.28 kB - 28/03/2017 13:39:32	
	File_Record_0001.rec	
	37.28 kB - 28/03/2017 08:06:10	
		A .
	30.00 GB free space on 30.00 GB	

Internal file management

Multi-channel data recorder DAS240-BAT Series

The tools you need

Expandable up to 200 analog channels



The DAS240-BAT 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 (10 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.



The 50 Ω shunt can be used on any channel of the recorder to accurately measure, display, and record the output from 4 to 20 mA current loop sensors.

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.

DasLab Software

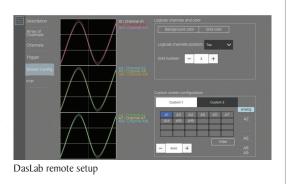


DasLab is a license-free Windows compatible software that can be downloaded from www.bkprecision.com. The software controls the recorder through the LAN or WiFi interface and provides the following features:

- Channel and trigger configuration
- Display live measurement results in graphical or numerical format
- File management, file upload and download of data recordings, screen captures and configuration files

		Last Modification	Destination hider	
	File_Record_0001/rec	8105 05 nut	Usersidevelopmeng	
	File_Record_0002.rec	juin 20 2016		
Screen Config.	File_Record_0003.rec	jun 20 2016		
		Juin 20 2016		
	File_Record_0004.rec	jul. 06 2016		
	File_Record_0005.rec	jul. 06 2016		
	File_Record_0006.rec	Jul. 06 2016		
	File_Record_0007/rec	jul. 11 2016		
	File_Record_0008.rec	juli. 11 2016		

DasLab file management



Specifications

	Analog Channels	;					
Analog Input Channels	20 standard, expandable to 200 with optional 20-channel modules						
DC Voltage							
Ranges	± (0.5, I, 2.5, 5, 10, 25, 50, 100) mV ± (0.5, I, 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 1370 °C					
	Т	-200 °C to 400 °C					
Sensors Range by	S	-50 °C to 1760 °C					
Type (Cold junction	В	200 °C to 1820 °C					
compensation: ±0.5 °C)	E	-250 °C to 1000 °C					
	N	-250 °C to 1300 °C					
	С	0 °C to 2320 °C					
	L	-200 °C to 900 °C					
Temperature with Pt100 a	Temperature with Pt100 and Pt1000						
Current	I mA (Pt100), 100 μA (Pt1000)						
Range	-200 °C to 850 °C						
Measurements	2 and 3 wires						
Accuracy (at 20 °C)	0.3 °C ±0.1% of reading						
Commenced Desistence	2 wires	$30 \ \Omega$ max.					
Compensated Resistance	3 wires	50 Ω max.					
Resistance							
Ranges	I k Ω and IO k Ω						
Accuracy	Accuracy I Ω (range I k Ω) and IO Ω (range IO k Ω)						
Louis Obernale							

Logic Channels						
Logic Input/Output						
Number of Channels	12					
Maximum Permitted Voltage	24 V Cat I					
Input Impedance	4.7 kΩ					
Sampling Rate	l 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	l 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					

ResolutionIAcquisition SystemScan, one samule ret channelSampling IntervalV > 50 mVI ms to 20 minSampling IntervalV \leq 50 mV, thermocouples and PtI00 / PtI0002 ms to 20 minTriggerDate, delay, thresh-ukl (sond)-r, word on logic channels (and, -r, slope, level)Pre-triggerVariable from 0 to 100 samplesMaximum File Size32 GBOperating Temperature0 °C to 40 °C, 80% RH (no condensation)Storage Temperature0 °C to 40 °C, 80% RH (so condensation)Storage Temperature20 °C to 60 °CDisplay15 V / 4 A max with main adapter (100 / 240 VAC)Interfaces2 x USB host, LAN (10/100 base-T with RH5 socket)Battery (-BAT)Non removab -L Uthium-ionTypical Battery Life (-BAT)15 hours with standby mode 10 hours without stand-by modeSafetyCat 1100 V, according to IEC61010-1Safety2.6" 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, 1cabe (70 cm) for measurement module connection, 1 measurement module connection, 1 measurement module (20 channels) with input terminals, stylus, soft wite, srewdriver, calibration certificat and test reportOrder Information20-channel analog module with 20 input terminals, stylus, soft wite, srewdriver, calibration certificat and test reportDasplay20-channel analog module with 20 input terminal blocksSupplied AccessoriesAnalog input terminal blocks 20 pack902401000Analo	Acquisition System						
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Typical Battery Life (-BAT)stand-by modeSafetyCat 1 100 V, according to IEC61010-1WeightDAS240 / 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 YearsWarrantyMain adapter 100 / 240 V, 25 pin male connector ^(I) and backshell, 1 cable (70 cm) for measurement module connection, I measurement module (20 channels) with input terminals, stylus, soft wipe, screwdriver, calibration certificate and test report90240100020-channel analog module with 20 input terminal blocks902401050Analog input terminal blocks 20 pack902407000Logic channels patch cord9024065004 to 20 mA / 50 Q shunt	Battery (-BAT)	Non removable, Lithium-ion					
Weight DAS240 / 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) Warranty Two Years Main adapter 100 / 240 V, 25 pin male connector ⁽¹⁾ 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 report Order Information for Optional Accessories 20-channel analog module with 20 input terminal blocks 902401000 20-channel analog module with 20 input terminal blocks 902401050 Analog input terminal blocks 20 pack 902407000 Logic channels patch cord 902406500 4 to 20 mA / 50 Q shunt	Typical Battery Life (-BAT)	5					
WeightDAS240-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 YearsWarrantyTwo YearsSupplied AccessoriesMain adapter 100 / 240 V, 25 pin male connector(0 and backshell, 1 cable (70 cm) for measurement module connection, I measurement module (20 channels) with input terminals, stylus, soft wipe, screwdriver, calibration certificate and test reportOrder Information for Optional Accessories20-channel analog module with 20 input terminal blocks90240100020-channel analog module with 20 input terminal blocks902401050Analog input terminal blocks 20 pack Rugged carrying case902407000Logic channels patch cord 4 to 20 mA / 50 Ω shunt	Safety	Cat I 100 V, according to IEC61010-1					
Dimensions (W x H x D)2.6" x 11.7" x 6.9" (66 x 298 x 176 mm)WarrantyTwo YearsWarrantyMain adapter 100 / 240 V, 25 pin male connector ⁽¹⁾ and backshell, 1 cable (70 cm) for measurement module connection, I measurement module (20 channels) with input terminals, stylus, soft wipe, screwdriver, calibration certificate and test reportOrder Information for Optional Accessories20-channel analog module with 20 input terminal blocks90240100020-channel analog module with 20 input terminal blocks902401050Analog input terminal blocks 20 pack902407000Logic channels patch cord9024065004 to 20 mA / 50 Ω shunt	Waight	DAS240 / 3.3 lbs (1.5 kg)					
WarrantyTwo YearsSupplied AccessoriesMain adapter 100 / 240 V, 25 pin male connector(1) and backshell, 1 cable (70 cm) for measurement module connection, I 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 pack902407000Logic channels patch cord9024065004 to 20 mA / 50 Ω shunt	weight	DAS240-BAT / 4.5 lbs (2 kg)					
Supplied AccessoriesMain adapter 100 / 240 V, 25 pin male connector(1) and backshell, 1 cable (70 cm) for measurement module connection, I measurement module connection, I 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 cord9024065004 to 20 mA / 50 Ω shunt	Dimensions (W x H x D)	2.6" x 11.7" x 6.9" (66 x 298 x 176 mm)					
Supplied Accessoriesconnector(II) and backshell, I cable (70 cm) for measurement module connection, I measurement module (20 channels) with input terminals, stylus, soft wipe, screwdriver, calibration certificate and test reportOrder Informationfor Optional Accessories90240100020-channel analog module with 20 input terminal blocks902401050Analog input terminal blocks 20 pack902408000Rugged carrying case902407000Logic channels patch cord9024065004 to 20 mA / 50 Ω shunt	Warranty	Two Years					
90240100020-channel analog module with 20 input terminal blocks902401050Analog input terminal blocks 20 pack902408000Rugged carrying case902407000Logic channels patch cord9024065004 to 20 mA / 50 Ω shunt	Supplied Accessories	connector ⁽¹⁾ and backshell, I cable (70 cm) for measurement module connection, I measurement module (20 channels) with input terminals, stylus, soft wipe, screwdriver,					
902401000 terminal blocks 902401050 Analog input terminal blocks 20 pack 902408000 Rugged carrying case 902407000 Logic channels patch cord 902406500 4 to 20 mA / 50 Ω shunt	Order Information for Optional Accessories						
902408000 Rugged carrying case 902407000 Logic channels patch cord 902406500 4 to 20 mA / 50 Ω shunt	902401000						
902407000 Logic channels patch cord 902406500 4 to 20 mA / 50 Ω shunt	902401050	Analog input terminal blocks 20 pack					
902406500 4 to 20 mA / 50 Ω shunt	902408000	Rugged carrying case					
	902407000	Logic channels patch cord					
902409000 19" rack-mount kit	902406500	4 to 20 mA / 50 Ω shunt					
	902409000	19" rack-mount kit					

^(I) User configurable with solder cups

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DAS240-BAT 902401000 902401050 902406500 902407000 902408000 902409000