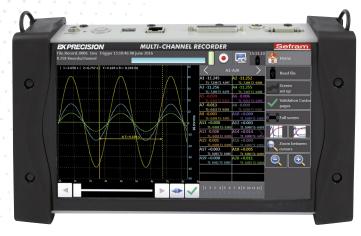




SEFRAM DAS240 Multi Channel Handheld Recorder

Capabilities :

- 20 to 200 analogue channels • Input: voltage, thermocouple, Pt100-Pt1000, current (with optional adapter), resistance
- Voltage: from 1 mV to 200 V (±100 V)
- Temperature: thermocouples (all types), Pt100-Pt1000 (2 or 3 wires)
- 16 Bit vertical resolution
- Max sampling rate: 1 ms (1 kHz)
- 12 logical channels
- 4 alarms (output)
- 4 logical function input with counter & frequency meter capability
- 10" TFT panoramic touch screen
- Internal hard drive: 32 Gb
- Interfaces: USB, Ethernet, Wifi (option)
- Lithium-ion battery (factory option): 15 h autonomy
- DasLab software (licence free)
- Safety: IEC 61010 CAT I 100 V
- LabWiew[®] driver
- Supplied with calibration report



DAS 240

A multi channel handheld recorder dedicated to process

The new DAS40 recorder has been designed to measure all parameters you can find in a process: voltage measurements, measurements on sensors (0-10 V), temperature measurements (thermocouple, Pt100-Pt1000), current measurements (with optional shunt), resistance measurement, counter, frequency. You can view directly the results of measurements (graphs, numerical values) and memorize your results in the recorder memory or in an USB memory stick. The data transfer and data processing can be done later with a personal computer using the licence free DasLab software.

User-friendly interface

The DAS240 is equipped with a panoramic 10" touch screen: the user interface becomes absolutely interactive. The icons and symbols used makes the browsing very easy and will save your time.

Multiple applications

The DAS240 recorder is really a general purpose recorder for process applications:

- multi channel temperature monitoring and recording
- 0-10 V sensors monitoring and recording
- voltage measurements
- pulse counting
- 4-20 mA measurement and monitoring (with optional shunt).

A modular solution

The DAS240 is supplied with 20 analogue channels, but you can add 180 analogue channels, by steps of 20. All modules (20 channels) are strictly identical and can perform the same measurements (voltage, temperature, resistance, current).



Selection guide	DAS240	DAS240BAT
20 analogue multiplexed channels	•	•
12 logical channels input	•	•
Internal battery (15h autonomy)	-	•
20 channels module	option	option
WiFi interface (USB dongle)	option	option

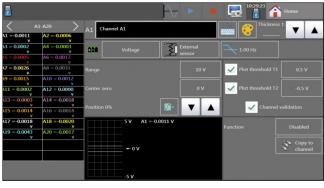




SEFRAM DAS240



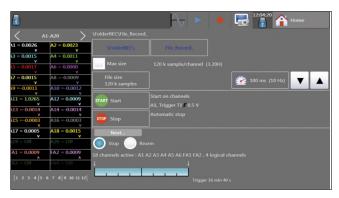
Multi Channel Handheld Recorder



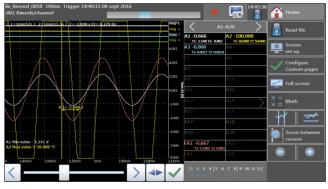
Setup: self-explanatory icons to guide the user

				•		🛃 👔 🏠 H	ome	
$\langle \rangle$ 1 2 3 4 5 6 7 8 9 10 11 12		A1-A20				Reset Min/Max	<	
CH Value Min Max	CH	Value	Min	Max	CH	Value	Min	Max
A1 = 0.0024 v -0.0058 0.0050		$\begin{array}{c} \text{Channel A9} \\ = -0.0017 \\ \text{v} \end{array}$	-5.0000	0.0038		Channel A17 =-0.0005 v	-5.0000	0.0040
A2 Channel A2 = 0.0024 v -5.0000 0.0040		Channel A10 =-0.0029 v	-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 v -s.0000 0.0035		Channel A12 =-0.0021 v	-5.0000	0.0035				-
A5 Channel A5 = 0.0005		Channel A13 =-0.0017	-5.0000	0.0040		Funct A1 = 0.0008 A	-0.0058	0.0050
A6 Channel A6 =-0.0003 v -5.0000 0.0040		Channel A14 =-0.0024	-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 v -5.0000 0.0038	A16	Channel A16 =-0.0014	-5.0000	0.0040	FA4	Funct A4 = Off		-

Numerical display of measurements



 $\ensuremath{\mathsf{Trigger}}$: multiple choice and combination of threshold, channels and conditions

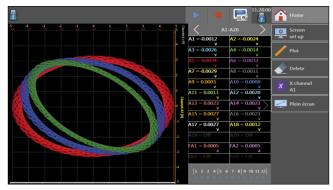


Measurement display with zoom and cursors

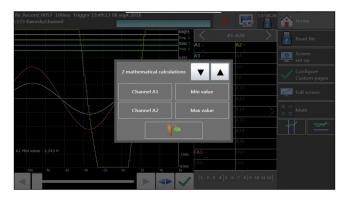


1												
< [A1 💿	A2 0	A3 👩	A4 0	AS 😑	A6 👝	A7 0	A8 0	A9 0	A10 💿	>	
Name											Name	
Туре											Туре	
Filter						Without filter					Filter	
Function	Disabled		Disabled		Disabled	Disabled					Functio	
Range											Range	
enter zero											Center ze	
Max.						5 V					Max.	
Min.											Min.	
Threshold T1						0.5 V					Thresho T1	
Threshold T2											Thresho T2	

Channels setup: all parameters can be displayed on a single screen



XY mode



Math calculation between channels

\SD card\	File_Record_0158.rec	1
► FolderREC	36.87 kB - 30/09/2016 13:56:24	Ÿ
► FolderBMP	File_Record_0157.rec	-
	37.71 kB - 30/09/2016 13:56:20	
	File_Record_0156.rec	TÎ
	36.69 kB - 30/09/2016 13:56:14	
	File_Record_0155.rec	
	36.67 kB - 30/09/2016 13:56:10	
	File_Record_0154.rec	
	37.76 kB - 30/09/2016 13:56:06	
	File_Record_0153.rec	
	36.66 kB - 30/09/2016 13:55:58	
	File_Record_0152.rec	
	37.85 kB - 30/09/2016 13:55:54	
	File_Record_0151.rec	
	29.78 GB free space on 30.00 GB	

File management with the DAS240

SEFRAM DAS240



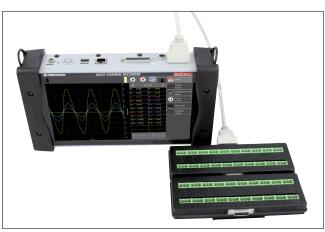
Multi Channel Handheld Recorder

DAS 240: a flexible solution with the optional 20 channels modules

Your applications needs more measurement channels? The DAS240 is a flexible and scalable system! Supplied with 20 measurement channels, you can add up to 180 channels, by increment of 20, for reaching a total of 200 channels. The 20 channels modules (P/N: 902401000) are all versatile: you can measure voltage, temperature with thermocouples, Pt100-1000 and are supplied with fast connectors and a mechanical system to fix them together.







DAS240 equipped with 40 channels





SEFRAM DAS240



Multi Channel Handheld Recorder

TECHNICAL SPECIFICATIONS					
Number of channels:	20 channels, expandable to 200				
	with optional 20 channels modules				
INPUT SPECIFICATIONS					
DC Voltage					
Ranges:	1m V (±0,5 mV) to 200 V (±100 V)				
Maximum input voltage:	100 V DC				
Accuracy: TEMPERATURE WITH THERMOCOUPL	0,1 % of the full scale \pm 10 μ V				
Sensors	Range				
Couple J	-210 °C to 1200 °C				
Couple K	-250 °C to 1370 °C				
Couple T	-200 °C to 400 °C				
Couple S	-50 °C to 1760 °c				
Couple B Couple E	200 °C to 1820 °C -250 °C to 1000 °C				
Couple N	-250 °C to 1300 °C				
Couple C	0 °C to 2320 °C				
Couple L	-200 °C to 900 °C				
Couple R	-40 °C to 1500 °C				
Cold junction compensation: ±0,5 °C					
TEMPERATURE WITH PT100 - PT10	000				
Current:	1 mA (Pt100) & 100 µA (Pt1000)				
Range:	-200 °C to 850 °C				
Measurements:	2 and 3 wires				
Accuracy (at 20°C): Compensated resistance with 2 wire:	0,3 °C ±0,1 % of reading 30 ohms max.				
Compensated resistance with 3 wires:	50 ohms max				
RESISTANCE					
Ranges:	1 k Ω and 10 k Ω				
Accuracy:	1 Ω (range 1 k Ω) and 10 Ω (range (10 k Ω)				
Acquisition - Sampling					
Resolution:	16 bit				
Acquisition system:	scanner, one sample per channel				
Sampling rate:	1 ms to 20 mn for V >50 mV 2 ms to 20 mn for V ≤50 mV,				
	thermocouples & Pt100-Pt1000				
Trigger:	date, delay, threshold, combination				
	of thresholds (and/or), word on logical channels (and, or, slope,				
level)					
Pre-trigger :	variable from 0 to 100 k samples				
Additionnal I/O					
Logical channels					
Number:	12				
Maximum permitted voltage: Input impedance:	24 V Cat I 4,7 kΩ				
Sampling rate:	1 ms max.				
LOGICAL FUNCTION INPUT					
Number of channels:	4 (K1 to K4)				
Maximum permitted voltage:					
	24 V Cat I				
Input impedance:	4,7 kΩ				
Input impedance: Sampling rate:	4,7 kΩ 1 ms max.				
Input impedance: Sampling rate: Pulse counter:	4,7 kΩ				
Input impedance: Sampling rate: Pulse counter: Frequency measurement:	4,7 kΩ 1 ms max. 0 to 10000000				
Input impedance: Sampling rate: Pulse counter:	4,7 kΩ 1 ms max. 0 to 10000000 1 Hz to 10 kHz				
Input impedance: Sampling rate: Pulse counter: Frequency measurement: ALARMS (OUTPUT)	4,7 kΩ 1 ms max. 0 to 10000000				

Supplied with: a main adaptor 100/240 V, manual (CD-ROM), 1 male connector with 25 pins male and cover, 1 cable (70cm) for measurement module connection, 1 measurement module (20 channels) with connectors, a stylus, a soft wipe, a screwdriver.

DasLab software and the LabView® driver can be downloaded from our webside: www.sefram.fr



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INTERNAL STORA	GE					
Internal flash drive Maximum file size:	size:	32 Gb min 2 Gb				
INTERFACES						
USB: Ethernet: Wifi:		2 x USB type A 10/100 base-T with RJ45 socket with optional USB dongle				
GENERAL SPE	CIFICATIONS	5				
Display:		10" TFT touch screen LCD, backlighted,				
Power supply: Battery: Autonomy with bat		1024 x 600 dots 15V / 4 A max with main adapter (100/240VAC) factory option, non removable, Lithium-ion 15 h with standby mode, 10 h without stand-by mode 0.8C for 40.5C 00 (/ DL) (ap appdagation)				
Operating temperat Storage temperatur		0 °C to 40 °C, 80 % RH (no condensation) -20 °C to 60 °C				
Dimensions:	0.	66 x 298 x 176mm				
Weight:		1,5kg				
Safety: Warranty:		Cat I 100 V, according to IEC61010-1 2 years				
Accessories and	OPTIONS					
P/N: 902401000	20 channels mo	dule				
P/N: 902408000	Rugged carrying) Case				
P/N: 902402000	Wifi option (USB	dongle)				
P/N: 984405500	12 isolated logic	al channels board				
P/N: 902407000	Logical channels	patch cord				
P/N: 902406500	4-20 mA / 50 of	ims shunt				
P/N: 902409000	19" rackmount l	<it< th=""></it<>				

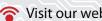
For assistance and ordering



P/N: 978553000

Power supply

FTDAS240A01 - Specifications can be updated without notice



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