



SEFRAM DAS 240

Multi Channel Handheld Recorder

Capabilities

- 20 to 200 analogue channels
- Input: voltage, thermocouple, Pt100-Pt1000, current (with optional adapter), resistance
- Voltage: from 1mV to 200V (±100V)
- Temperature: thermocouples (all types), Pt100-Pt1000 (2 or 3 wires)
- 16 Bit vertical resolution
- Max sampling rate: 1ms (1kHz)
- 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): 15h autonomy
- DasLab software (licence free)
- Safety: IEC 61010 CAT I 100V

BK PRECISION MULTI-CHANNEL RECORDER The Accord Show June Trigger 15:10-66 08 june 2016. SSS County June 15:10-66 08 june 2016. SSS County June 15:10-66 08 june 2016. Al 11:26 12 12-5779 | Velidation Customers of the County June 15:10-10 | June 15:10 | June 15:

DAS 240

A multi channel handheld recorder dedicated to process

The new DAS240 recorder has been designed to measure all parameters you can find in a process: voltage measurements, measurements on sensors (0-10V), 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 a 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.

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).



Multiple applications

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

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

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

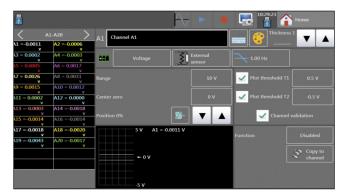




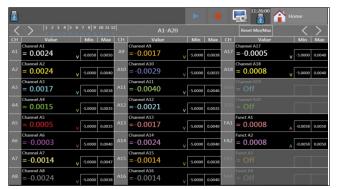


SEFRAM DAS 240

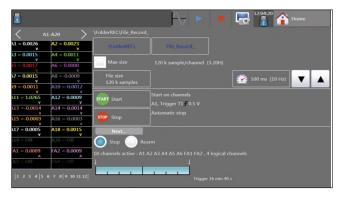
Multi Channel Handheld Recorder



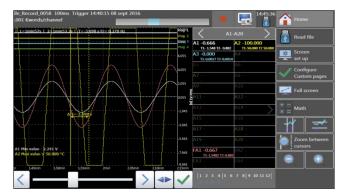
Setup: self-explanatory icons to guide the user



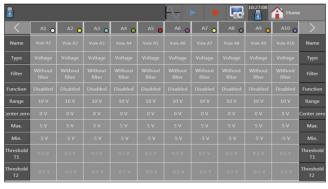
Numerical display of measurements



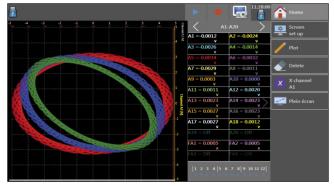
Trigger: multiple choice and combination of threshold, channels and conditions



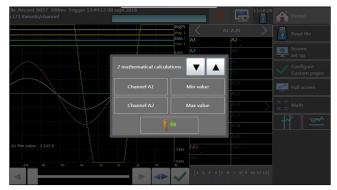
Measurement display with zoom and cursors



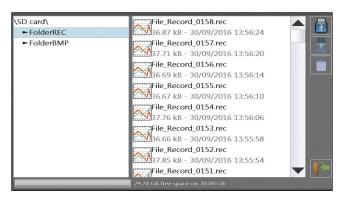
Channels setup: all parameters can be displayed on a single screen



XY mode



Math calculation between channels



File management with the DAS240





Multi Channel Handheld Recorder

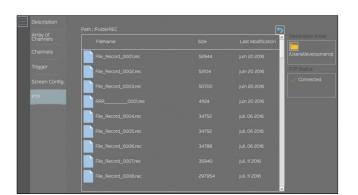
SEFRAM DasLab Software

The new DasLab software for PC (under Windows) is suitable for:

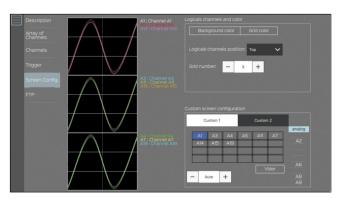
- Managing recorder setup (online & offline)
- Remote setup of the DAS240
- Managing & downloading files (records, setup) from the recorder

DasLab is a licence free software and can be downloaded from Sefram website.

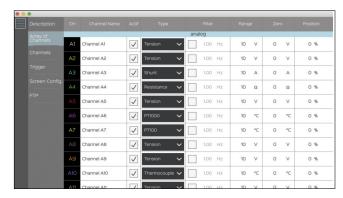
The link between your DAS240 and your computer can be set up through the Ethernet interface or the Wifi interface (option).



DasLab: files management



DasLab: Remote setup



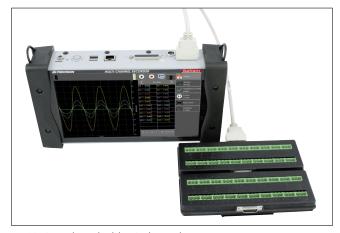
DasLab: channels setup

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.



20 channels module (P/N: 902401000)



DAS240 equipped with 40 channels







FRAM DAS 240

Multi Channel Handheld Recorder

TECHNICAL SPECIFICATIONS

Number of channels: 20 channels, expandable to 200 with optional 20 channels modules

INPUT SPECIFICATIONS

Accuracy:

DC Voltage 1mV (±0,5mV) to 200V (±100V) Maximum input voltage: 100V DC

TEMPERATURE WITH THERMOCOUPLES

Sensors Range -210°C to 1200°C -250°C to 1370°C Couple J Couple k Couple 1 -200°C to 400°C Couple S 50°C to 1760°C Couple B 200°C to 1820°C Couple E -250°C to 1000°C Couple N -250°C to 1300°C Couple C 0°C to 2320°C -200°C to 900°C Couple L

0,1% of the full scale ±10µV

Cold junction compensation: ±0,5°C

TEMPERATURE WITH PT100 - PT1000

1mA (Pt100) & 100µA (Pt1000) Current: Range: -200°C to 850°C Measurements: 2 and 3 wires 0,3°C ±0,1% of reading 30 ohms max. Accuracy (at 20°C): Compensated resistance with 2 wire: Compensated resistance with 3 wires: 50 ohms max

RESISTANCE

Trigger:

Ranges: $1k\Omega$ and $10k\Omega$

 1Ω (range $1k\Omega$) and 10Ω (range $(10k\Omega)$ Accuracy:

ACQUISITION - SAMPLING Resolution:

16 bit Acquisition system: scanner, one sample per channel Sampling rate: 1ms to 20mn for V >50mV 2ms to 20mn for V \leq 50mV, thermocouples & Pt100-Pt1000

date, delay, threshold, combination of thresholds (and/or),

word on logical channels (and, or, slope, level)

Pre-trigger: variable from 0 to 100k samples

ADDITIONNAL I/O

Logical channels Number: Maximum permitted voltage: 24V Cat I Input impedance: Sampling rate: 1ms max.

LOGICAL FUNCTION INPUT

Number of channels: 4 (K1 to K4) Maximum permitted voltage: 24V Cat I 4,7kΩ Input impedance: Sampling rate: 1ms max. Pulse counter: 0 to 10000000 Frequency measurement: 1Hz to 10kHz

ALARMS (OUTPUT)

Number: 4 alarms (A, B, C, D)

Output level: 0-5V

Supplied with: a main adaptor 100/240V, 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.

INTERNAL STORAGE

Internal flash drive size: 32Gb min Maximum file size: 2Gb

INTERFACES

USB: 2 x USB type A 10/100base-T with RJ45 socket with optional USB dongle Ethernet: Wifi:

GENERAL SPECIFICATIONS

10" TFT touch screen LCD, backlighted,

1024 x 600 dots

15V / 4A max with main adapter (100/240VAC) Power supply: Battery: factory option, non removable, Lithium-ion Autonomy with battery: 15h with standby mode, 10h without

stand-by mode

Operating temperature: 0°C to 40°C, 80% RH (no condensation)

Storage temperature: -20°C to 60°C Dimensions: 66 x 298 x 176mm

Weight: 1.5kg

Safety: Cat I 100V, according to IEC61010-1

Warranty: 2 years

ACCESSORIES AND OPTIONS

902401000: 20 channels module

902408000-Rugged carrying case

902402000: Wifi option (USB dongle)

984405500: 12 isolated logical channels board

902407000-Logical channels patch cord

902406500: 4-20mA / 50 ohms shunt

902409000-19" rackmount kit-





FTDAS240A00 - Specifications can be updated without notice

ISO 9001 Qualité AFNOR CERTIFICATION 1997/7001

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