



### SEFRAM DAS 220

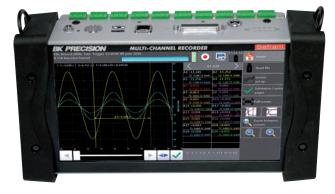
### 10 Channel Handheld universal datalogger

#### Capabilities

- 10 analogue channels
- Input: voltage, thermocouple, Pt100-1000, 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 & frequencymeter 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 (license free)
- Safety: IEC61010 CAT I 100V
- Supplied with calibration report

# NЕШ





**DAS 220** 

# A 10 Channel Handheld universal datalogger dedicated to process

The new DAS220 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 DAS220 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 DAS220 recorder is really a general purpose datalogger 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	DAS220	DAS220BAT
100 analogue multiplexed channels	•	•
12 logical channels input	•	•
Internal battery (8h autonomy)	-	•
WiFi interface (USB dongle)	option	option







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#### 10 Channel Handheld universal datalogger



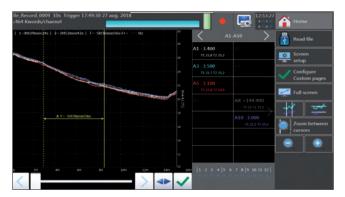
Setup: self-explanatory icons to guide the user



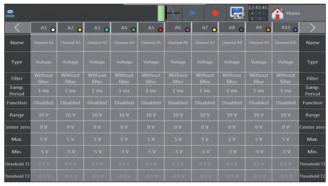
Numerical display of measurements



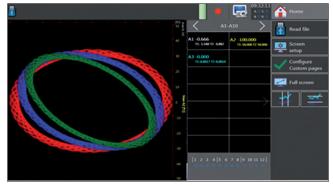
Trigger: multiple choice and combination of threshold, channels and conditions



Measurement display with zoom and cursors



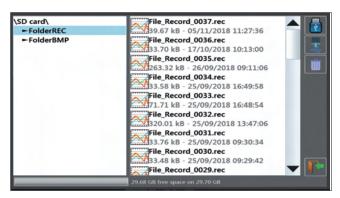
Channels setup: all parameters can be displayed on a single screen



XY mode



Math calculation between channels



File management with the DAS220





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#### **SEFRAM DasLab Software**

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

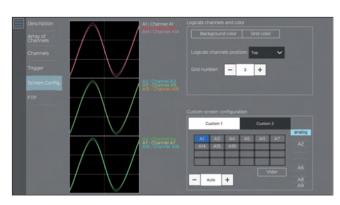
- Managing device setup (online & offline)
- Remote setup of the DAS220
- Managing & downloading files (records, setup) from the recorder

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

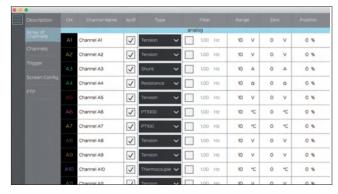
The link between your DAS220 and your computer can be set up through the Ethernet interface or the WiFi interface (option).



DasLab: files management



DasLab: Remote setup



DasLab: channels setup

### **Optional accessories for all uses**



P/N: 902406500 Shunt 50 Ohms for current measurements 4-20mA



P/N: 902407000 Cord for logic channels



P/N: 902408000 Carrying case for the device and its accessories





# FRAM DAS 220

#### 10 Channel Handheld universal datalogger

TECHNICAL SPECIFICATIONS

Number of channels: 10 channels,

INPUT SPECIFICATIONS

DC Voltage Ranges:

1mV (±0,5mV) to 200V (±100V) Maximum input voltage: 100V DC 0,1% of the full scale ±10µV

Accuracy: TEMPERATURE WITH THERMOCOUPLES

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

Cold junction compensation: ±0,5°C TEMPERATURE WITH PT100 - PT1000

Current: 1mA (Pt100) & 100µA (Pt1000)

Range: -200°C to 850°C Measurements: 2 and 3 wires Accuracy (at 20°C): 0.3°C +0.1% of reading Compensated resistance with 2 wire: 30 ohms max. Compensated resistance with 3 wires: 50 ohms max

RESISTANCE

Trigger:

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

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

**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 ≤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

24V Cat I Maximum permitted voltage: Input impedance: 4,7kΩ Sampling rate: 1ms max

LOGICAL FUNCTION INPUT

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

**ALARMS (OUTPUT)** 

Number: Output level: 4 alarms (A, B, C, D) 0-5V

Supplied with: a main adaptor 100/240V, manual (CD-ROM), 1 male connector with 25 pins mâle and cover, connectors, a stylus, a soft wipe, a screwdriver.

For ordering the DAS220 with internal battery: DAS220 BAT

INTERNAL STORAGE

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

**INTERFACES** 

2 x USB type A USB:

10/100base-T with RJ45 socket Fthernet: with optional USB dongle

**GENERAL SPECIFICATIONS** 

10" TFT touch screen LCD, backlighted, Display:

1024 x 600 dots

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

stand-by mode

P/N: 902201000

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

Storage temperature: -20°C to 60°C Dimensions: 210 x 295 x 105mm

Weight: 2.5kg

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

Warranty: 2 years

**ACCESSORIES AND OPTIONS** 

Din mount kit:

Rugged carrying case: P/N: 902408000 Wifi option (USB donale): P/N: 902402000 12 isolated logical channels: P/N: 984405500 Logical channels patch cord: P/N: 902407000 4-20mA / 50 ohms shunt: P/N: 902406500 19" rackmount kit: P/N: 902209000

FTDAS220A00 - Specifications can be updated without notice





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