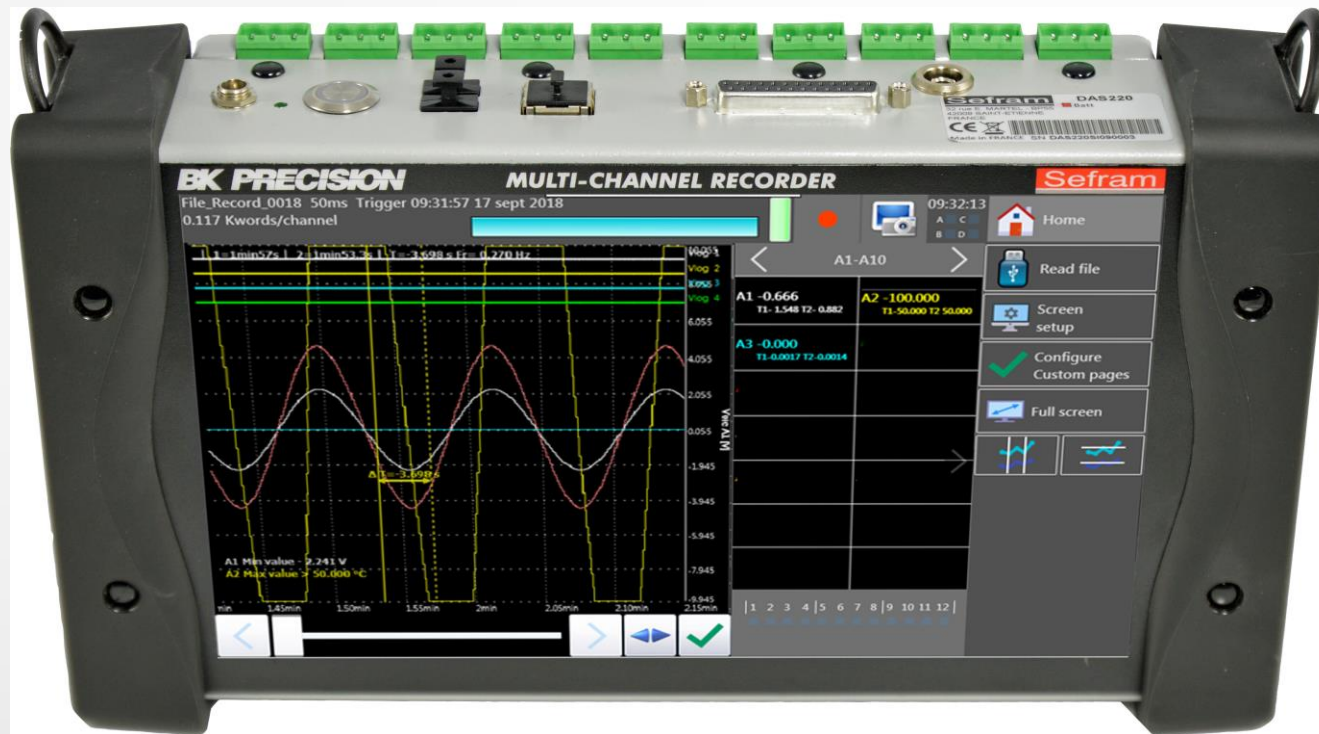




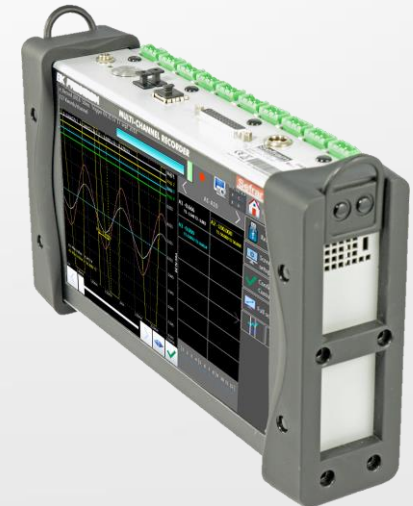
Sefram DAS 220





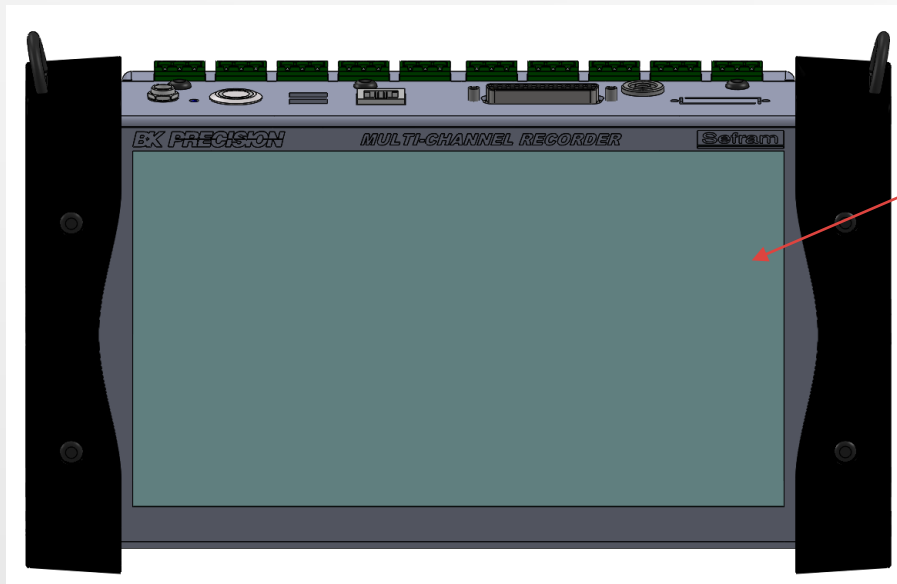
Overview

- ➔ 10 analogue channels
- ➔ Input: voltage, thermocouple, Pt100/Pt1000, current (with optional adapter), resistance
- ➔ Voltage range: from 1mV to 200V ($\pm 100V$)
- ➔ 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
- ➔ Lithium-ion battery (factory option) : 15h autonomy
- ➔ DasLab software (license free)
- ➔ USB, Ethernet Interface and Wi-Fi (option)
- ➔ 2 years warranty



Sefram

Overview



10" TFT panoramic touch screen

10 channels : voltage, thermocouple, Pt100/Pt1000, current (with optional adapter), resistance

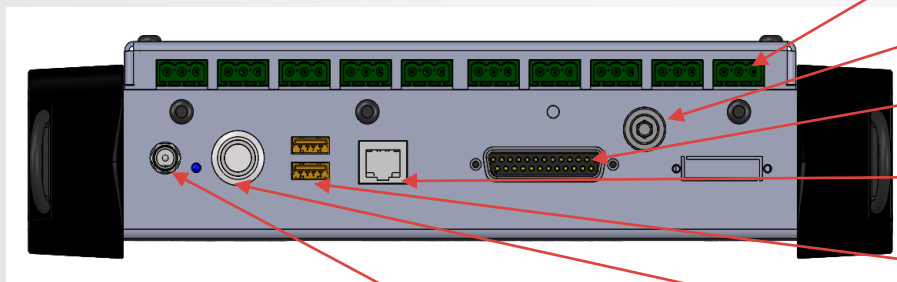
Earth connector

12 logical channels + 4 alarms (output)

Ethernet connector to remote control the device and download the data

2 USB port for USB stick or mouse

Turn on/off button

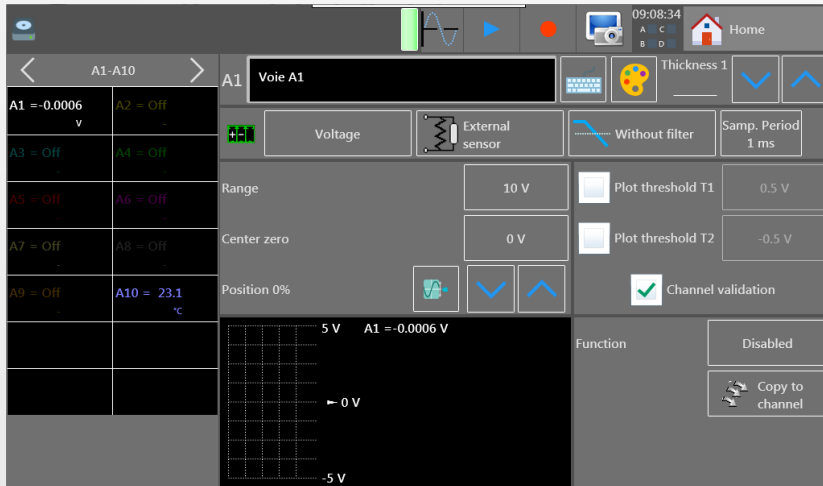


Power Supply



Operation highlights

Setting Up Channels



	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	
Name	Voie A1	Voie A2	Voie A3	Voie A4	Voie A5	Voie A6	Voie A7	Voie A8	Voie A9	Voie A10	Name
Type	Voltage	Voltage	Voltage	Voltage	Voltage	Voltage	Voltage	Voltage	Voltage	Th J Compensated	Type
Filter	Without filter	Without filter	Without filter	Without filter	Without filter	Without filter	Without filter	Without filter	Without filter	Without filter	Filter
Samp. Period	1 ms	1 ms	1 ms	1 ms	1 ms	1 ms	1 ms	1 ms	1 ms	1 ms	Samp. Period
Function	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Function
Range	10 V	10 V	10 V	10 V	10 V	10 V	10 V	10 V	10 V	200°C	Range
Center zero	0 V	0 V	0 V	0 V	0 V	0 V	0 V	0 V	0 V	0°C	Center zero
Max.	5 V	5 V	5 V	5 V	5 V	5 V	5 V	5 V	5 V	100°C	Max.
Min.	-5 V	-5 V	-5 V	-5 V	-5 V	-5 V	-5 V	-5 V	-5 V	-100°C	Min.
Threshold T1	0.5 V	0.5 V	0.5 V	0.5 V	0.5 V	0.5 V	0.5 V	0.5 V	0.5 V	0.5°C	Threshold T1
Threshold T2	-0.5 V	-0.5 V	-0.5 V	-0.5 V	-0.5 V	-0.5 V	-0.5 V	-0.5 V	-0.5 V	-0.5°C	Threshold T2

- ↳ Easy to set up channels
- ↳ You can measure directly Voltage, currents, temperature, frequency and resistance
- ↳ Set up different external sensors input (f.e. 0-10V or 4-20mA)
- ↳ Customizable channels Name, Color and Thickness

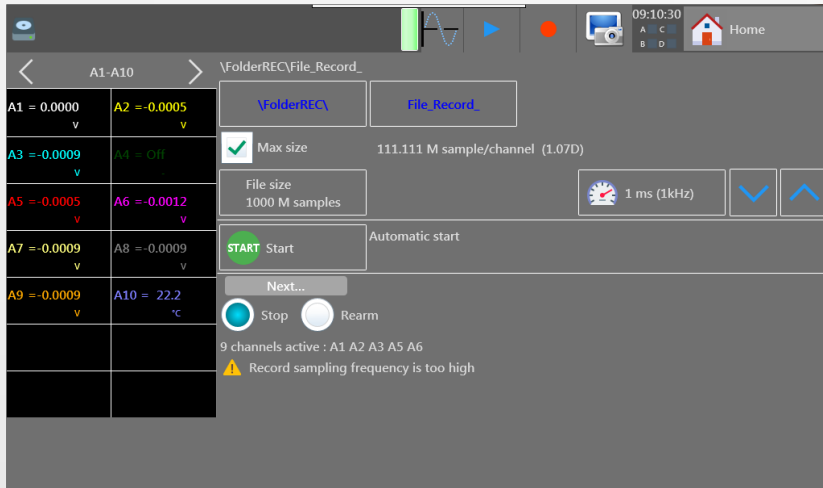
- ↳ Digital filter
- ↳ Selectable range
- ↳ Functions
- ↳ Threshold set up
- ↳ Customizable trigger



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Operation highlights

Trigger Menu



- ↳ Set up the sampling rate
- ↳ File name and folder
- ↳ Size of sample

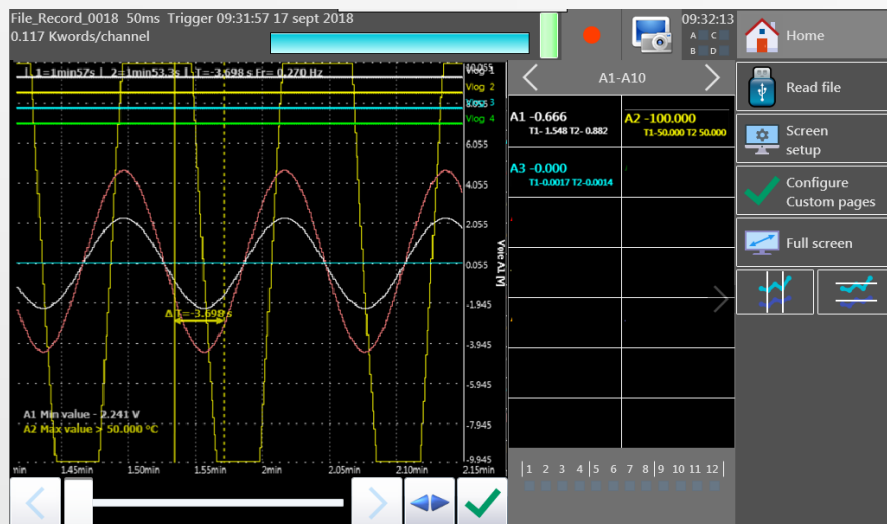
- ↳ Start and Stop Trigger
- ↳ Trigger on level or edge and logical input
- ↳ Rearm function



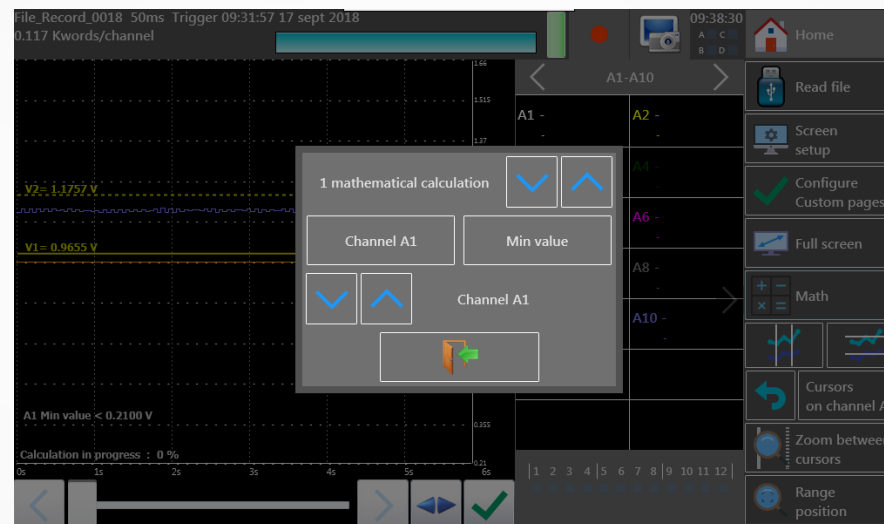


Operation highlights

View Menu



- ↳ F(t) mode and XY mode
- ↳ Full screen mode
- ↳ Easy to set up the graphic range
- ↳ Mathematical functions



- ↳ Numeric view up to 14 channels simultaneous
- ↳ Scroll and cursor view
- ↳ Horizontal and Vertical zoom



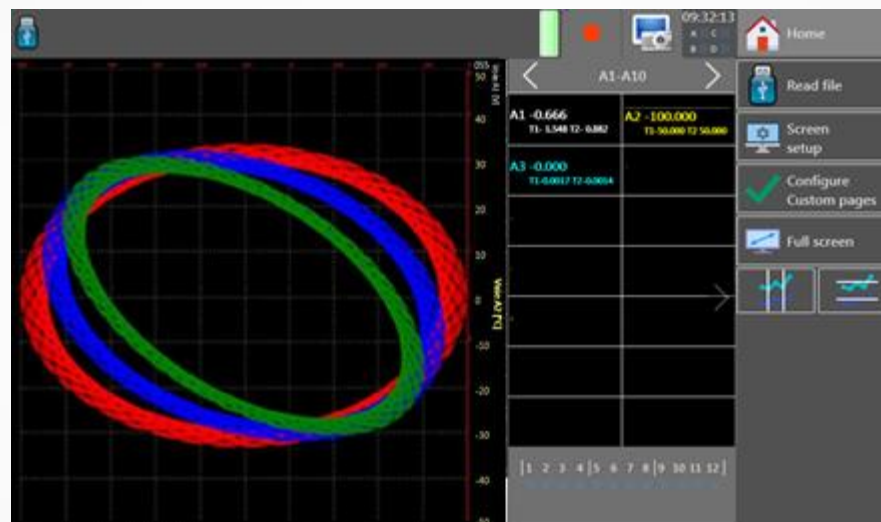
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Operation highlights

View Menu

A1-A10									
CH	Value	Min	Max	CH	Value	Min	Max		
A1	Voie A1 = 26 °C	0.6	26.5	A7	Voie A7 = 26.6 °C	1.1	27.5		
A2	Voie A2 = 27.1 °C	1.1	27.5	A8	Voie A8 = 25.8 °C	1.1	27.5		
A3	Voie A3 = 26.2 °C	1.1	27.4	A9	Voie A9 = 25.7 °C	1.1	27.4		
A5	Voie A5 = 26.8 °C	1.1	27.5	A10	Voie A10 = 26.9 °C	24.5	27.7		
A6	Voie A6 = 26.9 °C	1.1	27.8						

↳ Numeric mode

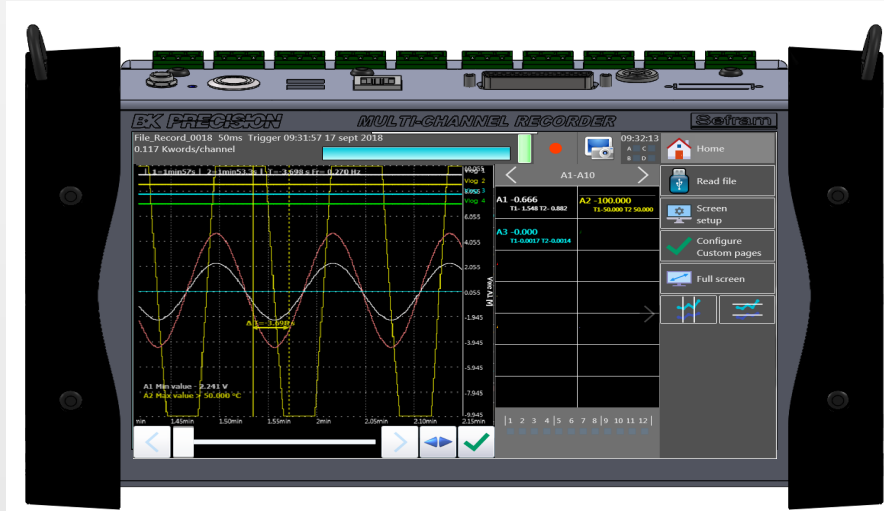


↳ XY mode



Operation highlights

Communication



- ↳ USB Key for file management
- ↳ Ethernet and Wi-Fi communication with computer or tablet

- ↳ Remotely control the recorder using VNC communication
- ↳ FTP server for remote file management

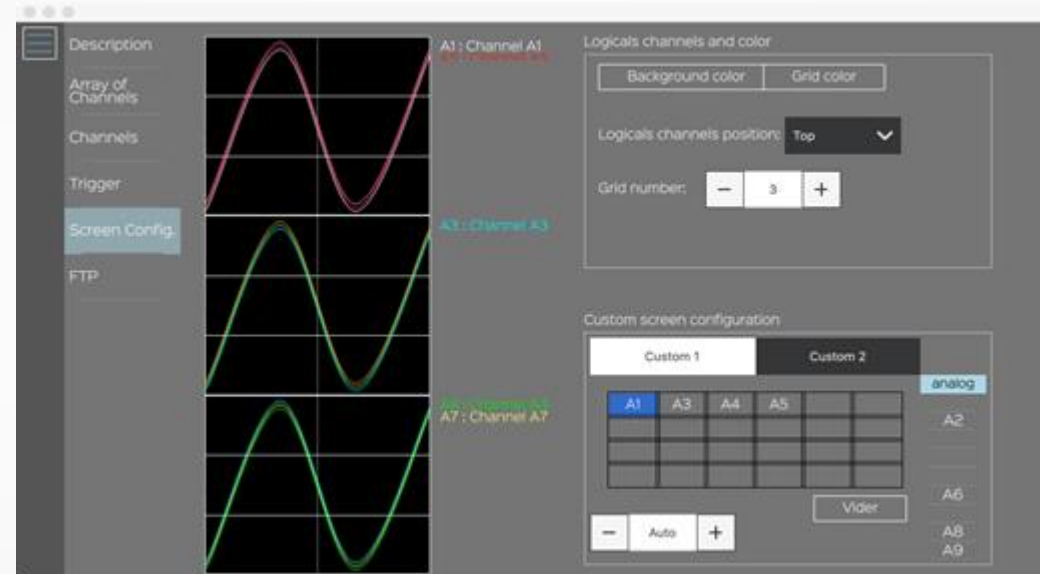


Operation highlights

DASLaB



Description	CH	Channel Name	Activ	Type	Filter	Range	Zero	Position
Array of Channels	analog							
Channels	A1	Channel A1	<input checked="" type="checkbox"/>	Tension	<input type="checkbox"/> 1.00 Hz	10 V	0 V	0 %
Trigger	A2	Channel A2	<input checked="" type="checkbox"/>	Tension	<input type="checkbox"/> 1.00 Hz	10 V	0 V	0 %
Screen Config.	A3	Channel A3	<input checked="" type="checkbox"/>	Shunt	<input type="checkbox"/> 1.00 Hz	10 A	0 A	0 %
FTP	A4	Channel A4	<input checked="" type="checkbox"/>	Resistance	<input type="checkbox"/> 1.00 Hz	10 Ω	0 Ω	0 %
	A5	Channel A5	<input checked="" type="checkbox"/>	Tension	<input type="checkbox"/> 1.00 Hz	10 V	0 V	0 %
	A6	Channel A6	<input checked="" type="checkbox"/>	PT1000	<input type="checkbox"/> 1.00 Hz	10 °C	0 °C	0 %
	A7	Channel A7	<input checked="" type="checkbox"/>	PT100	<input type="checkbox"/> 1.00 Hz	10 °C	0 °C	0 %
	A8	Channel A8	<input checked="" type="checkbox"/>	Tension	<input type="checkbox"/> 1.00 Hz	10 V	0 V	0 %
	A9	Channel A9	<input checked="" type="checkbox"/>	Tension	<input type="checkbox"/> 1.00 Hz	10 V	0 V	0 %
	A10	Channel A10	<input checked="" type="checkbox"/>	Thermocouple	<input type="checkbox"/> 1.00 Hz	10 °C	0 °C	0 %



- ↳ Set up recorder configuration
- ↳ Offline recorder configuration
- ↳ Data analysis

- ↳ Real Time View
- ↳ Free software included with DAS 220

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