



SEFRAM DAS 220

Multi Channel Handheld Recorder

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

the licence free DasLab software.





DAS 220

A multi channel handheld recorder 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

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.

Selection guide	DAS220	DAS220BAT
10 analogue multiplexed channels	•	•
12 logical channels input	•	•
Internal battery (8h autonomy)	-	•
WiFi interface (USB dongle)	option	option

Multiple applications

The DAS220 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).





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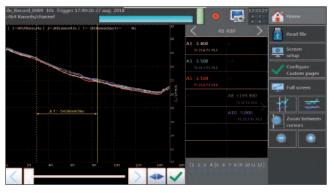
Setup: self-explanatory icons to guide the user



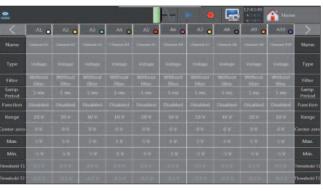
Numerical display of measurements



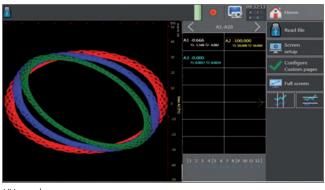
Trigger: multiple choice and combination of threshold, channels and conditions



Measurement display with zoom and cursors



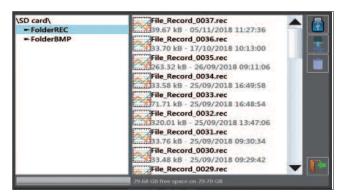
Channels setup: all parameters can be displayed on a single screen



XY mode



Math calculation between channels



File management with the DAS220





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 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).

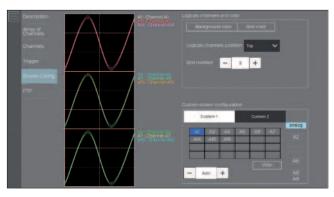
	Last Modification	
File_Record_000Urec	(un 20 20%	
File_Record_0002.nec	juin 20.2016	
File_Record_0003.rec	Juin 20 2016	
0001/ec	jun 20 2016	
Rie_Record_0004.rec	jul. 06.2016	
File_Record_0005/rec	jul. 06 2016	
File_Record_0006.rec	Jul. 06 2016	
File_Record_0007.rec	jul. 11 2016	
File Record 0008.rec	jul. 11 2010	

DasLab: files management

Optional accessories for all uses



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



DasLab : Remote setup

Array of Charmels				analog		_	
charenels	Channel Al	~	Tension 🗸	LOO Hz	10 V	O V	0 %
Channels	Channel A2		Tension 🗸	1,00 Hz	10 V	o v	0 %
Trigger	Channel A3		Shunt 🗸	100 Hz	10 A	0 A	0 %
Screen Config.	Channel A4		Resistance 🗸	1.00 Hz	10 0	0 0	0 %
414	Channel A5	1	Tension 🗸	1,00 Hz	NO V	a v	0 %
	Channel A8		P11000 V	1.00 Hz	- 10 °C	0 10	0 %
	Channel A7		РТ100 🗸	1.00 Hz	10 10	0 10	0 %
	Channel A8		Tension 🗸	100 Hz	10 V	o v	0 %
	Channel A9		Tension 🗸	1.00 Hz	10 V	o v	0 %
	Channel Al0		Thermocouple 🗸	1.00 Hz	10 10	0 *0	0 %
	Channel Att	171	Tension	100 10	-		

DasLab: channels setup



P/N: 902407000 Cord for logic channels



P/N: 902407100 Connecting cord with female banana plugs



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





Multi Channel Handheld Recorder

lumber of channels:	10 channels,
NPUT SPECIFICATIONS	
DC Voltage	
anges:	1mV (±0,5mV) to 200V (±100V)
Aaximum input voltage:	100V DC
Accuracy:	$0,1\%$ of the full scale $\pm 10\mu$ V
EMPERATURE WITH THERMOCOU	
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	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
Couple L	-200°C to 900°C
	200 0 10 300 0
Cold junction compensation: ±0,5°C	
EMPERATURE WITH PT100 - PT	1000
urrent:	1mA (Pt100) & 100µA (Pt1000)
ange:	-200°C to 850°C
leasurements:	2 and 3 wires
ccuracy (at 20°C):	0,3°C ±0,1% of reading
ompensated resistance with 2 wire:	30 ohms max.
ompensated resistance with 3 wires:	50 ohms max
Resistance	
anges:	1k Ω and 10k Ω
ccuracy:	1Ω (range $1k\Omega$) and 10Ω (range ($10k\Omega$)
CQUISITION - SAMPLING	
resolution:	16 bit
cquisition system:	scanner, one sample per channel
ampling rate:	1ms to 20mn for V >50mV
	$2ms$ to $20mn$ for V $\leq 50mV$.
	thermocouples & Pt100-Pt1000
rigger:	date, delay, threshold, combination
	of thresholds (and/or),
	word on logical channels (and, or, slope, level)
re-trigger :	variable from 0 to 100k samples
DDITIONNAL I/O	
ogical channels	
lumber:	12
faximum permitted voltage:	24V Cat I
nput impedance:	4,7kΩ
ampling rate:	1ms max.
DGICAL FUNCTION INPUT	
umber of channels:	4 (K1 to K4)
laximum permitted voltage:	24V Cat
iput impedance:	4.7 k Ω
ampling rate:	1ms max.
ulse counter:	0 to 1000000
requency measurement:	1Hz to 10kHz
equency measurement:	
ILARMS (OUTPUT)	4 alarms (A, B, C, D)

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

FTDAS220A00 - Specifications can be updated without notice





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INTERNAL STORAGE					
Internal flash drive size: Maximum file size:	32GB min 2GB				
INTERFACES					
USB: Ethernet: Wifi:	2 x USB type A 10/100base-T with RJ45 socket with optional USB dongle				
GENERAL SPECIFICATIONS					
Display:	10" TFT touch screen LCD, backlighted,				
Power supply: Battery: Autonomy with battery:	1024 x 600 dots 15V / 4A max with main adapter (100/240VAC) factory option, non removable, Lithium-ion 15h with standby mode, 10h without stand-by mode				
Operating temperature:	0°C to 40°C, 80% RH (no condensation)				
Storage temperature: Dimensions [.]	-20°C to 60°C 210 x 295 x 105mm				
Weight:	2,5kg				
Safety:	Cat I 100V, according to IEC61010-1				
Warranty:	2 years				
Accessories and options					
Rugged carrying case:	P/N: 902408000				
Wifi option (USB dongle):	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				
Din mount kit:	P/N: 902201000				

For assistance and ordering

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