Sefram

SEFRAM
DAS 801 / DAS 801SV

12 Multiplexed channels
Data Acquisition Solution

Capabilities

- 12 multiplexed analogue channels:
  - Voltage up to 50V
  - Temperature with Pt100 (2, 3, 4 wires)
  - Temperature with thermocouples (J, K, T, S, E, N, W5)
- Resolution: 16 bit
- Sampling rate: 5kHz max.
- 16 logical channels
- 15.4 inches panoramic TFT touch screen
- 500Gb hard disk
- Interface: Ethernet, 6 x USB, VGA
- Power analysis (50Hz, 60Hz, 400Hz, 1kHz)
- Internal battery option
- WiFi option
- Option: Bus CAN and LIN analysis

DAS 801SV : no cooling fan version,
for special polluted environmental conditions.

LIN BUS Analysis

CAN BUS Analysis

2 YEARS WARRANTY

12 multiplexed analogue channels

The DAS801 is configurated with 12 multiplexed analogue channels and 16 logical channels. The input board is suitable for all applications: DC and AC low voltage (up to 50V), temperature (Pt100, thermocouples), sensors,…

A panoramic touch screen to ease the operation

With its 15.4 inches touch screen, using the DAS801 is like a game: the man-machine interface has been designed to be intuitive, all menus are clear and simple and the user's manual can be displayed on the recorder if needed.

Various analysis functions and fast acquisition on disk

The DAS801 will provide many automatic measurements, various triggers and math functions. All is done to simplify the analysis of complex signals. Take benefit of the 12 channels combined with hard disk memory for your diagnostics.

A connected instrument

With its 6 USB interfaces, the LAN interface ot through WiFi communication, you can remote control your data acquisition solution or download your records. With Virtual Network Computing software (not included), view and control your DAS801 from your computer or your tablet…. Just like if you have the recorder in front of you!

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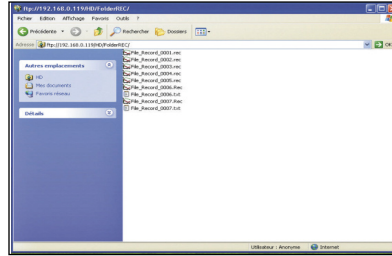
Sefram
Data Acquisition Solution

▶ A modular concept for all your applications

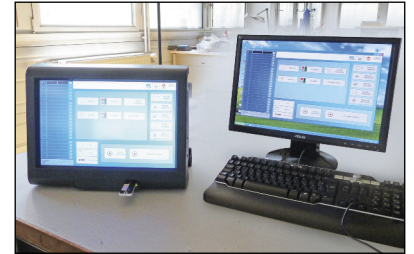### Communication and simplified data export :

With Virtual Network Computing software, you remote control your DAS801 from a computer or a tablet.
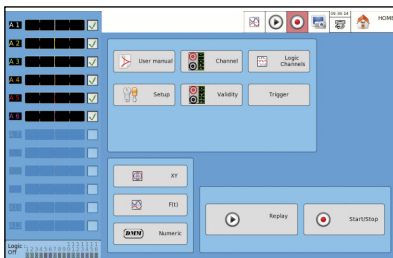
FTP : easy transfer of records

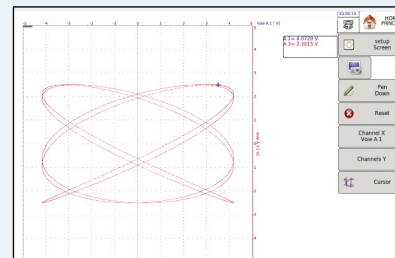FTP or TCP-IP transfer of files and recorded data display.

WiFi

With the WiFi interface (option) you can take the best benefit of remote control of your device. All functions, all modes can be remote controlled.

Several operating modes

Expert mode : user will access to all parameters of the setup.
User mode : restricted access.
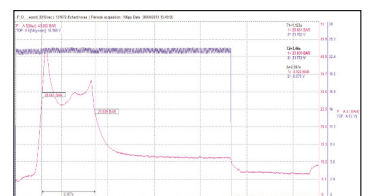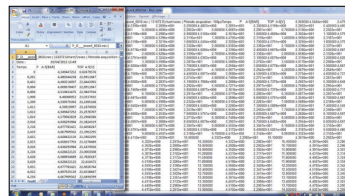

XY mode with pen-up and pen-down.

With an efficient XY mode, your DAS 800 will replace your old analogue XY tables.

▶ Sefram Viewer

This licence free software is supplied with each recorder. It allows the visualization of the recordings and the data transfer to other applications. SEFRAM Viewer makes the acquired signal analysis easier.

Capabilities

- Curve printing
- Display of values (text)
- Cursors and zoom
- File concatenation
- 8 math calculations
- Up to 120 characters text notes
- Bitmap, Excel®, txt, csv export
- Easy setup of curves display

▶ Internal battery option (not available for DAS 801SV)

This factory option allows you to protect your important campain against main power break and allows measurement campains where the main power is not available.

Capabilities

- Autonomy with internal battery: 2hours minimum
- Charging time: < 3 hours (instrument off)
- Charging time: < 6 heures (instrument on)
- Battery status indicated on the menu bar of the instrument

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GENERAL SPECIFICATIONS

DISPLAY

15,4 inches TFT touch screen, with backlight
Resolution 1280 x 800 dots
f(t) and XY display capability
Functions: zoom, cursors, zoom between cursors
Math and scalling functions (Y = aX + B)
20 automatic measurements available

MEMORY

Memorization of setup	
Memory	128 Mwords, in segments
Internal hard disk	500Gb

INTERFACES AND I/O

Interfaces	6 x USB (2 on the front panel, 4 on the rear panel), VGA, Ethernet
Logical channels	16 logical channels (V max: 24V, Zin = 4,7kohms)
Sensor supply	12V / 0,2A max (non floating)
Alarm output	3 output, with 1 relay (24V/100mA) and 2 x TTL 5V

GENERAL AND ENVIRONMENT

Power supply	95VAC to 264VAC, 47Hz to 63Hz
Consumption	47 VA max
Operating temperature	0°C to +40°C
Storage temperature	-20°C to +60°C
Maximum operating RH	80% max.
Dimensions	298 x 394 218 mm
Weight	8kg

SPECIFICATIONS - MULTIPLEXED BOARD

Channels :	12 per board

VOLTAGE

DC voltage ranges:	1mV to 50 V
Max offset:	± 5 ranges
Accuracy:	± 0,1% ± 10µV ± 0,1% offset
TRMS AC+DC :	200mV to 50V.
Bandwidth (-3dB):	5Hz to 100Hz
Crest factor :	2,2

TEMPERATURE

Sensor	Using environnement	Ranges
PT100 (2,3,4 Fils)	-200°C to 850°C	20°C to1000°C
J	-20°C to 1200°C	20°C to 2000°C
K	-250°C to 1370°C	20°C to 2000°C
T	-200°C à 400°C	20°C to 500°C
S	-50°C to1760°C	50°C to 2000°C
B	-200°C to 1820°C	50°C to 2000°C
E	-250°Cto1000°C	20°C to 1000°C
N	-250°C to 1300°C	20°C to 1000°C
W5	0 to 2320°C	50°C to 2000°C
Accuracy	Cold junction compensation: ±1,25°C	

SAMPLING

Resolution	16 Bits
Sampling rate	200µs maxi. (5K sample/s)
Memory length	32M word in segments of up to 128 Blocks
Triggering	Positive edge, negative edge, on logical input, delay.
Pre trigger	-100% à +100%

BANDWIDTH

Analog input bandwidth (-3dB)	1kHz at -3dB
Programmable digital filters	0,1Hz to 50Hz
Input impedance (DC)	2 MΩ ranges >5V
Input capacitance	10MΩ (150pF) for other ranges
Maximum input voltage	between one channel and the frame ground ± 50V between 2 terminals of one channel ± 50V all input are differential, non isolated
Common mode voltage (max.)	± 5V for ranges < 5V ± 50V for ranges > 5V

ACCESSORIES AND OPTIONS (* = FACTORY OPTION)

984405500	16 isolated logical channels module
910007000	Logical channels cords
916001000	Internal battery option*
916004500	Wifi communication option
916007000	Rack mounting kit

SHUNTS

910007100	Shunt 0,01 ohm 3A max
910007200	Shunt 0,1 ohm 1A max
989006000	Shunt 1 ohm 0,5A max
912008000	Shunt 10 ohms 0,15A max
989007000	Shunt 50 ohms 0,05A max
207030301	Shunt 0,01 ohm 30A max
207030500	Shunt 0,001 ohm 50A max

CARRYING CASES (TROLLEY)

914007500	For DAS801/801SV

FLEXPRO ANALYSIS SOFTWARE

100081	Flexpro View (basic version)
100082	Flexpro Full

Note : battery option is not available for DAS 801SV

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For assistance and ordering