

Sefram
Sefram

SEFRAM
DAS 800 / 800SV

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our Website

<http://www.sefram.fr>

New 6 channels value-for-money Paperless recorders

Capabilities

- 6 isolated analogue channels
- Measurement up to 500V AC or 1000VDC
- 16 logical channels
- 15.4 inches panoramic TFT touch screen
- 500Gb hard disk, with fast transfer
- Interface: Ethernet, 6 x USB, VGA
- Internal battery option
- WiFi option*
- IEC1010: CAT III - 600V

DAS 800SV : no cooling fan version, for special polluted environmental conditions.



Universal inputs

The new DAS800 is configured with 6 analogue channels and 16 logical channels. The input board is suitable for all applications: DC and AC voltage, frequency, temperature, current (with shunts or clamps)

A panoramic touch screen to ease the operation

With its 15.4 inches touch screen, using the DAS800 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 new DAS800 will provide many automatic measurements, various triggers, the power analysis mode,... All is done to simplify the analysis of complex signals. The real time acquisition on hard disk can record at 6Ms/s for one channel or 1Ms/s for 6 channels. Take benefit of this feature for your hi speed diagnostics.

A connected instrument

With its 6 USB interfaces, the LAN interface or through WiFi communication, you can remote control your recorder or download your records. With Virtual Network Computing software (not included), view and control your DAS800 from your computer or your tablet.... Just like if you have the recorder in front of you!

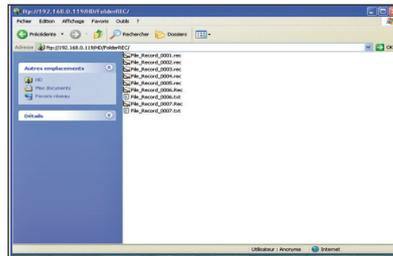
► A modular concept for all your applications

Communication and simplified data export :



With Virtual Network Computing software, you remote control your DAS 800 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 recorder.

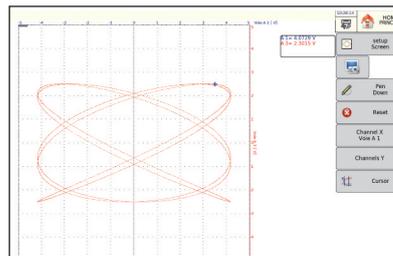
All functions, all modes can be remote controlled.

Several operating modes



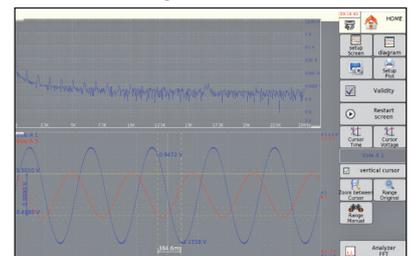
Expert mode : user will access to all parameters of the setup.
User mode: restricted access.

XY mode with pen-up and pen-down.



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

FFT Analysis



Real time FFT analysis.

► Energy / Power Analysis

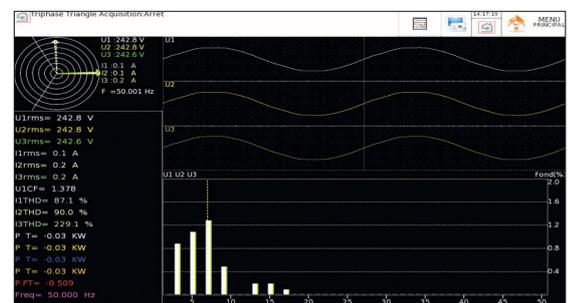
A very powerful analysis for single phase, dual phases or three phases networks. Analysis is provided with Fresnel diagram or oscilloscope mode.

Capabilities

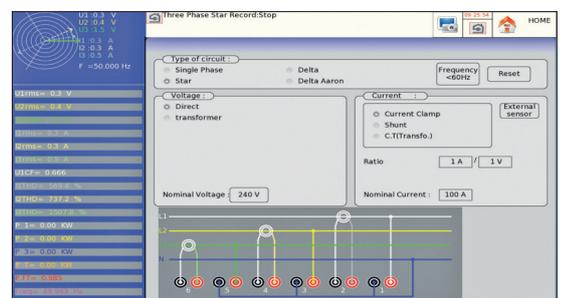
- Single phase, dual phases, three phases networks
- Up to 24 parameters memorized (U, I, W, Wh, ...)
- Network frequency: 40, 50, 60, 400, 1000 Hz
- Fresnel Diagram
- Oscilloscope mode
- Harmonics up to rank 50
- Memorization of harmonics
- 16 calculated values : mean value, RMS value, peak value, crest factor, THD, DF, active power, apparent power, reactive power, power factor (cos), energy, ...
- Real time word file of calculated values



Measurements are done with the voltage input (direct) of the universal board and accessories clamps (standard clamps or flexible clamps)



Harmonics up to rank 50 (calculation and memorization)





DAS 800 / 800SV

Paperless recorders

COMMON FEATURES

DISPLAY

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

MEMORY

Memorization of setup
 Memory 128 Mwords, in segments
 Internal hard disk 500Gb, with fast transfer (6Ms/s)

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, $Z_{in} = 4,7k\Omega$)
 Sensor supply 12V / 0,2A max (non floating)
 Alarm output 3 output, with 1 relay (24V/100mA)
 and 2 x TTL 5V

POWER ANALYSIS FUNCTION

(this function can be used with one universal board and accessories for current measurements)

Networks single phase, dual phases, three phases
 Frequency 50-60Hz, 400Hz and 1000Hz
 Display oscilloscope, Fresnel diagram
 Harmonics calculated up to rank 50,
 with recording capabilities
 Measurements 24 measurements: U and I (mean values,
 RMS, peak), crest factor, power (active,
 reactive, apparent), power factor, harmonics,
 THD, DF, frequency, energy,...

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 (without add. chassis) 298 x 394 x 218 mm
 Weight 8kg (10kg with add. chassis)

MEASUREMENT BOARDS AND OPTIONS (* = FACTORY OPTION)

984405500 16 isolated logical channels module
 910007000 Logical channels cords
 916001000 Battery option*
 916004500 Wifi communication option
 916007000 Rack mounting kit for DAS1600/800

CURRENT CLAMPS

A1257 Kit with 3 flexible clamps 30A/300A/3000A AC
 for three phases measurements
 A1287 Flexible clamp 30A/300A/3000A AC
 SP201 Current clamp 200A AC, 10mV/1A, D 15mm
 SP221 Current clamp 10A AC, 100mV/1A, D 15mm
 SP230 Current clamp 1200A AC, 10mV/1A, D 50mm
 SP261 Current clamp 1200A AC+DC, 1mV/1A, D 50mm
 SP270 Current clamp 2000A AC, 1mV/1A, D 70mm

Note : battery option is not available for DAS 800SV

SPECIFICATIONS - UNIVERSAL INPUT BOARD

channels : 6 per board

VOLTAGE

DC voltage ranges: 1mV to 1000 V
 Max offset: ± 5 ranges (except 1000V)
 Accuracy: $\pm 0,1\%$ $\pm 10V \pm 0,2\%$ offset
 TRMS AC+DC : 200 mV to 500 V
 Bandwidth (-3dB): 5Hz to 100kHz
 Crest factor : 2,2

FREQUENCY

Sensitivity 300mV rms min.
 Duty cycle 10%
 Frequency range 10Hz to 100 kHz
 Basic accuracy 0,2% of full scale
 Maximum input voltage $\pm 500VDC$ or 440V AC (sine)

TEMPERATURE

Sensor	Using environment	Ranges
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 to 400°C	20°C to 500°C
S	-50°C to 1760°C	50°C to 2000°C
B	-200°C to 1820°C	50°C to 2000°C
E	-250°C to 1000°C	20°C to 1000°C
N	-250°C to 1300°C	20°C to 1000°C
W5	0 à 2320°C	50°C to 2000°C

Accuracy Cold junction compensation : $\pm 1,25^\circ C$

SAMPLING

Resolution 14 bits
 Sampling rate 1M sample/sec per channel
 Memory length 32M word in segments of up to 128 Blocks
 Triggering Positive edge, negative edge, on logical
 input, delay, Go No Go.
 Pre trigger -100% à +100%

BANDWIDTH

Analogue input bandwidth (-3dB) range 1V: 100kHz
 range $\leq 50mV$: 20kHz min
 Programmable digital filters 10Hz, 100Hz, 1kHz, 10kHz
 Input impedance (DC) $>25M\Omega$ for range $<1V$
 1M Ω for upper ranges
 Input capacitance 150pF typ.
 Maximum input voltage between one channel and the frame ground $\pm 500V$
 between 2 terminals of one channel $\pm 500V$
 Isolation between frame ground and channel $>100M\Omega$ at 500VDC

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

TRANSPORTATION CASE (TROLLEY)

914007500 For DAS1600/800/800SV

FLEXPRO® ANALYSIS SOFTWARE

100081 Flexpro® View (basic version)
 100082 Flexpro® Full

FTDAS800 A 01 - Specifications can be updated without notice



32, rue Edouard Martel • B.P. 55 • 42009 - St Etienne cedex 2
 Tel. +33 (0).4.77.59 36 81
 Fax. +33 (0).4.77.57.23.23
 Website : www.sefram.fr • e-mail : sales@sefram.fr

For assistance and ordering

