Sefram

SEFRAM
DAS 800 / 800SV

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
- Power analysis (50Hz, 60Hz, 400Hz, 1kHz)
- Internal battery option
- WiFi option*
- IEC1010: CAT III - 600V

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

2 YEARS WARANTY

Universal inputs

The new DAS800 is configurated 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 ot 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!

CE   * contact us for availability
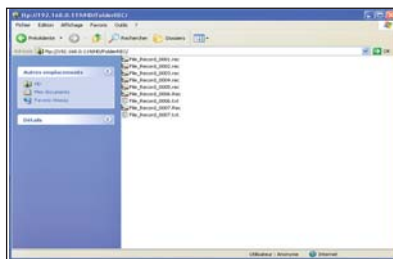
Sefram
INSTRUMENTS & SYSTEMES

▶ 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

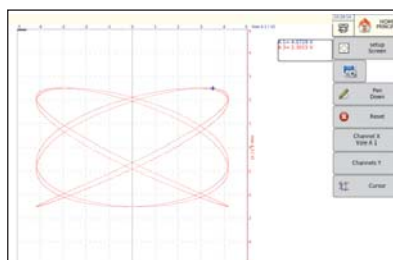FTP or TCP-IP transfer of files and recorded data display.

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 controled.
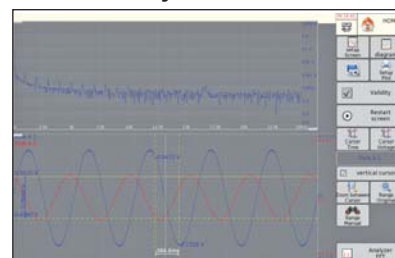
Several operating modes

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.
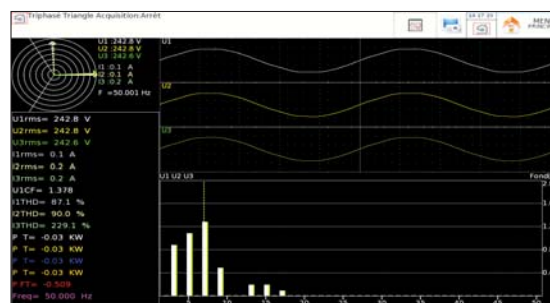
FFT Analysis
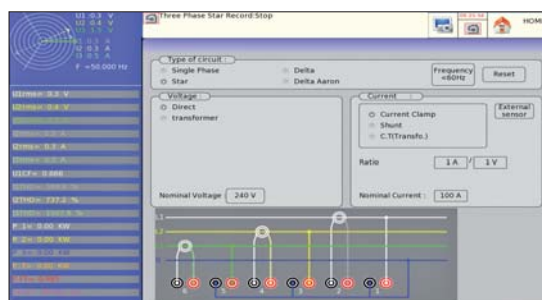

Real time FFT analysis.

▶ Energy / Power Analysis

A very powerfull 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

Harmonics up to rank 50
(calculation and memorization)

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

COMMON FEATURES (FOR ALL MODELS OF THE FAMILY)

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, 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, 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

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 ENVIRONNEMENT

Power supply	95VAC to 264VAC, 47Hz to 63Hz
Consumption	47 VA max
Operating temperature	0°C to +40°C
Storage temperature	-20°C à +60°C
Maximum operating RH	80% max.
Dimensions (without add. chassis)	298 x 394 x 218 mm
Dimensions with add. Chassis	298 x 394 x 295 mm
Weight (with one board installed)	8kg (10kg with add. chassis)

SPECIFICATIONS - UNIVERSAL INPUT BOARD

Channels :	6 per board

VOLTAGE

DC voltage ranges:	1mV to 1000 V
Max offset:	± 5 ranges (except 1000V)
Accuracy:	± 0,1% ± 10 µV ± 0,2% offset
TRMS AC+DC :	200 mV to 500 V
Bandwidth (-3dB):	5Hz to 500Hz
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	± 500VDC or 440V AC (sine)

TEMPERATURE

Sensor	Using environement	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°Cto 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 : ±1,25°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

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

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 100A 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

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

VALISE DE TRANSPORT RIGIDE (TROLLEY)

914007500	For DAS1600/800/800SV

FLEXPRO® ANALYSIS SOFTWARE

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

CE

FTDAS800 A 00 - Specifications can be updated without notice