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SEFRAM

DAS 600

6 CHANNELS VALUE-FOR-MONEY PAPERLESS RECORDER

- 6 analogue channels
- Universal isolated inputs
- DC Voltage, TRMS AC+DC,
- Frequency, Thermocouples
- 16 logic channels
- Power Analysis fonction
- 14 Bit resolution
- Colour LCD TFT screen (12")
- Max. sampling frequency : 1Ms/s par channel
- Bandwidth: 100 kHz
- Memory : 32 Mword
- Internal hard disk : 80 Gb
- Interfaces: USB, XGA, Ethernet
- IEC 1010 - CAT III - 600V

2008 **NEW**
- Includes Power Analysis



DAS 600 : New design

UNIVERSAL INPUTS

The DAS600 is configured with 6 analogue channels and 16 logical channels. The input board is suitable for all applications (voltage DC and AC, frequency, temperature).

EASE OF USE

DAS600 are the easiest to use recorders on the market today. The concept of previous families has been maintained, but now backed by the Linux operating system. All parameters are displayed on the screen. With the mouse, you can access and change functions and parameters. A help screen is provided for each function.

DATA ACQUISITION AND INTERFACES

The DAS600 offers various storage options: internal hard disk (80GB), external USB flash memory (USB key), USB storage devices (CD/DVD writer, external hard disk,...). You can save your records and the recorder parameters (setup). The Ethernet interface provides fast and efficient remote control of the recorder and will allow very fast transfer of data files to personal computers.

PANORAMIC LCD SCREEN

The high resolution LCD screen provides excellent quality real-time graphical display, even in difficult conditions.

COMPLETE SOFTWARE

SEFRAM View displays graphs on your personal computer as well as export to a spreadsheet (Excel™) or word processor (Word™).

Flexpro software (option): Powerful analysis software with more than 100 functions.

REAL TIME ACQUISITION ON HARD DISK

For long recording, the DAS600 provides direct acquisition onto the internal hard disk – up to 100kHz for 6 channels simultaneously.



For more information, contact our local distributor or us on +33 (0).4.77.59.36.81

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INSTRUMENTS & SYSTEMES

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% ± 10µV ± 0,2% offset |
| TRMS AC+DC ranges: | 200mV to 500V. |
| Bandwidth (-3dB): | 5Hz to 500Hz |
| Crest factor : | 2,2 |
| FREQUENCY | |
| Sensitivity | 300mV rms min. |
| Duty cycle | 10% |
| Frequency range | 10Hz to 100kHz |
| Basic accuracy | 0,2% of full scale |
| Maximum input voltage | ± 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 to 2320°C | 50°C to 2000°C |
| Accuracy | Cold junction compensation : ± 1,25°C | |

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

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

| | |
|---------------------|---|
| LOGIC INPUT | |
| Channels | 16 |
| TTL - Max voltage | 24V |
| Available functions | triggering acquisition on alarm triggering on logical words acquisition in memory mode 4, 8, 16 channels paper trace |
| Sensor supply | 12 V DC |
| Alarms | 3 (2 TTL , 1 relay) |

FOR ORDERING

SEFRAM DAS600 Recorder with 6 channels (universal input)



POWER ANALYSIS FUNCTION

This function is available only if your recorder has a 6 universal input board + internal software ≥ V2.0

| | |
|---------------------|--|
| Networks | Single phase, 2 phases, 3 phases |
| Display | Fresnel diagram, oscilloscope, data |
| Measurements | mean value, RMS value, peak value, crest factor, THD and DF for voltages and currents active, reactive and apparent power power factor (cos Φ) |
| Harmonics | calculated up to rank 50, with display and record |

GENERAL SPECIFICATIONS

| | |
|-----------------------------|--|
| DISPLAY | |
| Screen : | TFT LCD coloured screen 12 inches f(t) and XY functions Zoom, cursors, dV,dT and zoom between cursors |
| Calculation functions : | $y=ax+b$, $y=x/y+b$, $y=a\sqrt{x+b+c}$, $y=ax^2+b$, $y=(\log x)+b$, $yae^{x+b}+c$ +, -, x, / between channels |
| Automatic measurements | 20 automatic measurements (F, T, Vpp, Tm.....) |
| STORAGE | |
| Setup backup : | 16 named in RAM, unlimited on the hard disk |
| Internal hard disk : | 80 Gb. |
| Interfaces | 4 USB ports, VGA, Ethernet |
| MISCELLANEOUS | |
| Power supply | 85VAC to 264 VAC, 47Hz to 63 Hz |
| Max. consumption: | 60W |
| Dimensions & weight | 384 x 445 x 195 , 7.5 kg |
| Operating temperature range | 0°C to 40°C |
| Storage temperature range : | -20°C to 60°C |
| Max. RH | 80% (without condensation) |
| Warranty period | 1 year |
| Safety | CEI 1010 CAT III , 600V |

OPTIONAL ACCESSORIES

| | |
|-----------|-----------------------------------|
| 984407000 | Carrying case |
| 910008100 | Flexpro software (basic) |
| 910008200 | Flexpro software (comprehensive) |
| 298504246 | Ethernet cable (crossed - 5m) |
| 910007100 | shunt - 0,01 ohm 1% 3A |
| 910007200 | shunt - 0,1 ohm 1% 1A |
| 207030301 | shunt - 0,01 ohm 0,5% 30A |
| 207030500 | shunt - 0,001 ohm 0,5% 50A |
| 989006000 | shunt - 1 ohm 0,1% 0,25W |
| 989007000 | shunt - 50 ohms 0,5% 0,25W |
| 984405500 | isolated logical channels adaptor |

Specifications subject to change without notice - FT DAS600 A 01



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For assistance and ordering