HD 32.7

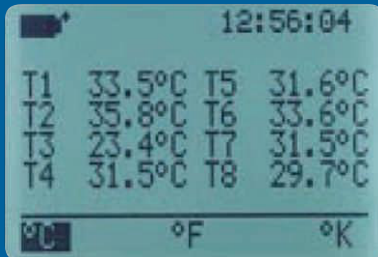**8-input Data Logger for
Pt100 probes
with SICRAM module**

```
                  12:56:04
T1   33.5°C  T5   31.6°C
T2   35.8°C  T6   33.6°C
T3   23.4°C  T7   31.5°C
T4   31.5°C  T8   29.7°C

°C        °F        °K
```
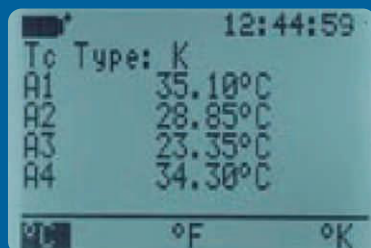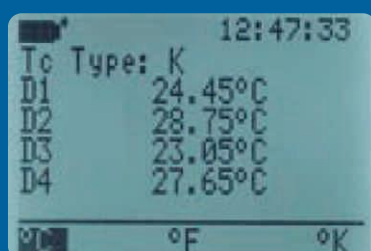

HD 32.8.8

**8-input Data Logger for
thermoucouple
types, K, J, T, N, R, S, B, E**

HD 32.8.16

**16-input Data Logger for
thermoucouple
types, K, J, T, N, R, S, B, E**

```
                  12:44:59
Tc Type: K
A1        35.10°C
A2        28.85°C
A3        23.35°C
A4        34.30°C

°C        °F        °K
```

```
                  12:47:33
Tc Type: K
D1        24.45°C
D2        28.75°C
D3        23.05°C
D4        27.65°C

°C        °F        °K
```

● HD 32.7

8-input Data Logger

The **HD32.7** instrument is a rugged 8-input data logger for Pt100 temp. probes complete with SICRAM module.
- Configurable unit of measurement : °C, °F, °K.
- Flash memory, organized in 64 blocks, for a total capacity of 800,000 recordings divided among the existing inputs. The recording can be handled in two ways:
  – when the available memory is full, the collected data are overwritten starting from the oldest ones (circular memory),
  – the recording stops when the available memory is full.
- Simultaneous display of the 8 inputs.
- Maximum, minimum or average of the logged values.
- Selectable storage interval: 2, 5, 10, 15, 30 seconds, 1, 2, 5, 10, 15, 20, 30 minutes and 1 hour.
- Data logging: instantaneous or postponed, with the possibility of selecting the recording start and end time.
- Data download: RS232C, 1200...38400 baud or USB 1.1-2.0,
- DeltaLog9 software, for data download and processing.
- LCD backlit graphic display 128×64 pixel.
- Instrument setup through the keyboard; no connection required to the PC.
- Security password for keyboard locking.
- Power supply : 4 1.5V alkaline C-BABY type batteries, or external power supply 12VDC-1A.
- Consumption @ 6VDC:
  - $<60\mu A$ when the instrument is off
  - $<60\mu A$ in sleep mode with 8 probes connected
  - $<40mA$ during data logging with 8 probes connected
- Use of the **HD32.7** data logger: In the field for machine or equipment measurements, plant or machine testing, production check, over mapping.

Technical Specifications

Number of Inputs
8×8-pole male DIN45326 connectors.

Instrument accuracy during data logging
±0.01°C ±1digit (in the range±199.99°C)
±0.1°C ±1digit in the remaining range

Internal watch accuracy
1min/month max. deviation

Unit of measurement
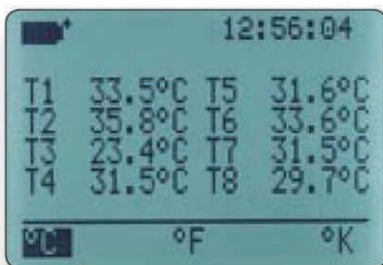°C, °F, °K

Resolution
0.01°C (in the range ± 199.99°C)
0.1°C in the remaining range

Display
LCD backlit graphic display 128×64 pixel.

Keyboard
15 keys; it can be configured without a PC

Keyboard locking
with password.

Memory
Divided into 64 blocks.

Storage Capacity
Up to 800,000 recordings divided among the existing inputs; for example with one probe connected, 800,000 recordings, with 8 probes connected, 96,000 recording each

Security of stored data
Unlimited.

Power Supply
4 1.5V alkaline C-BABY type batteries external power supply 12VDC-1A. Connector, external ø 5.5mm, internal ø 2.1 mm.

Power absorbed @6VDC :
$<60\mu A$ when the instrument is off
$<60\mu A$ in sleep mode with 8 probes connected
$<40mA$ during data logging with 8 probes connected.

Autonomy
200 hours with 7800mAh alkaline batteries and 8 probes connected

Data Download
RS232C from 1200 to 38400 baud, galvanically isolated. Sub D 9-pole male connector.
USB 1.1 - 2.0 galvanically isolated.

Operating conditions
Operating Temp	-5....50°C
Storage Temp	-25....65°C
Working RH	0.....90% RH without condensation
Protection degree	IP64

Instrument

Dimensions	
(L × W × H)	220 × 180 × 50 mm
Weight	1100 g (Batteries Included)
Materials	ABS, polycarbonate & aluminium

Probes

All the Pt100 probes complete with SICRAM module series TP47..., TP49.... can be connected.
Other sizes are available on request.

Order Codes

HD32.7 : 8-input data logger instrument for Pt100 temperature probes complete with SICRAM module. The kit includes the HD32.7, 4 1.5V alkaline C-BABY type batteries, operating manual, DeltaLog9 software, and carrying strap. **The probes, tripod, carrying case and cables must be ordered separately.**

Deltalog9 : Additional copy of the software for data download and management on PC using Windows 98 to XP operating systems.

HD32.7 Accessories

9CPRS232 : Connection cable with Sub D 9-pole female connectors for RS232C (null modem)

CP22 : Connection cable USB 2.0 connector type A-connector type B

BAG32.2 : carrying case for the HD32.7 instrument & accessories

HD32.2 : Carrying strap

SWD 10 : 100-240VAC / 12VDC-1A stabilized mains power supply

VTRAP32 : Tripod complete with 6-input head and 5 probe holders code HD3218K

HD3218K : Shaft for a another probe.

HD32CS

SWD10

● HD 32.8.8 8
8-input Data Logger for Thermocouple

● HD 32.8.16
16-input Data Logger for Thermocouple

The **HD32.8.8** and HD32.8.16 instruments are rugged data loggers. The former has 8 inputs, the latter has 16 inputs. They work with thermocouple probes type K, J, T, N, R, S, B and E with miniature connector.
- Configurable unit of measurement : °C, °F, °K.
- Flash memory, organized in 64 blocks, for a total capacity of 800,000 recordings divided among the existing inputs. The recording can be handled in two ways:
  – when the available memory is full, the collected data are overwritten starting from the oldest ones (circular memory),
  – the recording stops when the available memory is full.
- Simultaneous display of the 4 inputs.
- Maximum, minimum or average of the logged values.
- Selectable storage interval: 2, 5, 10, 15, 30 seconds, 1, 2, 5, 10, 15, 20, 30 minutes and 1 hour.
- Data logging: instantaneous or postponed, with the possibility of selecting the recording start and end time.
- Data download: RS232C, 1200...38400 baud or USB 1.1-2.0,
- DeltaLog9 software, for data download and processing.
- LCD backlit graphic display 128×64 pixel.
- Instrument setup through the keyboard; no connection required to the PC.
- Security password for keyboard locking.
- Power supply : 4 1.5V alkaline C-BABY type batteries, or external power supply 12VDC-1A.
- Consumption @ 6VDC:
  - <60µA   when the instrument is off
  - <60µA   in sleep mode with 8 probes connected
  - <40mA   during data logging with 8 probes connected
- Use of the **HD32.8.8** & **HD32.8.16** data loggers: In the field for machine or equipment Measurements Machine Testing, Pharmaceutical and food industry, Oven Mapping, Air Conditioning units, etc.

Technical Specifications

Number of Inputs
8 for the HD32.8.8
16 for the HD32.8.16

Connection
Miniature female socket for thermocouple

Instrument Accuracy & Measurement Range

T/c : K	-200...+1,370°C / ±0.1°C up to 600°C
	±0.2°C over 600°C
T/c : J	-100....+750°C / ±0.1°C up to 400°C
	±0.2°C over 400°C
T/c : T	-200...+400°C / ±0.1°C
T/c : N	-200...+1,300°C / ±0.1°C up to 600°C
	±0.2°C over 600°C
T/c : R	+200...+1,480°C / ±0.3°C
T/c : S	+200...+1,480°C / ±0.3°C
T/c : B	+200...+1,800°C / ±0.4°C
T/c : E	-200....+750°C / 0.1°C up to 300°C
	±0.2°C over 300°C

The accuracy refers to the Instrument only. Any error due to the thermocouple or the cold junction reference sensor is not included.

Resolution
0.05°C in the range ±199.95°C
0.1°C in the remaining range

Temperature drift @ 20°C
0.02% / °C

Drift after 1 year
0.1°C / Year

Internal Watch Accuracy
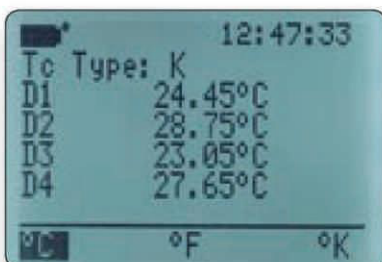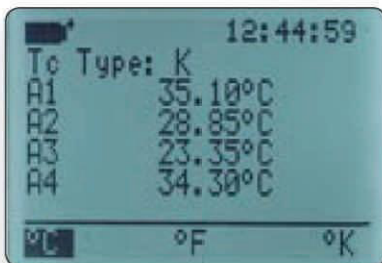1min / month max deviation

Unit of Measurement

HD 32.8.16

HD 32.8.8

Technical Specifications

Keyboard

15 keys; the instruments can be configured without a PC.

Keyboard Locking Function

with Password.

Memory

Divided into 64 blocks

Storage Capacity

Up to 800,000 recordings divided among the existing inputs; for example with one probe connected, 800,000 recordings; with 8 probes connected, 96,000 recordings each.

Security of stored data

Unlimited

Power Supply

4 1.5V alkaline C-BABY type batteries
External power supply 12VDC-1A.
Connector, external ø 5.5mm, internal ø 2.1mm.
Power Supply via the PC USB port.

Power absorbed @ 6VDC :

<60µA when the instrument is off
< 60µA in sleep mode with all probes

Autonomy

200 hours with 7800mAh alkaline batteries, with all probes connected.

Data Download

RS232C from 1200 to 38400 baud, Galvanically isolated. Sub D 9-pole male Connector.
USB 1.1 - 2.0 galvanically isolated.

Operating Conditions

Operating Temp.	-5....50°C
Storage Temp.	-25...65°C
Working RH	0...90% RH without condensation
Protection Degree	IP64

Instrument

Dimensions (L×W×H)

	220 × 180 × 50 mm
Weight	1100 g (Batteries Included)
Materials	ABS, Polycarbonate and aluminium

Probes

All the thermocouple probes type K, J, T, R, S, B, and E can be connected using a male miniature connector.
In addition to the K probes available in the catalogue, Delta Ohm can supply different probes on request.

Order Codes

HD32.8.8 : 8-input data logger instrument for thermocouple types K, J, T, N, R, S, B and E. The kit included the HD32.8.8, 4 1.5V alkaline C-BABY type batteries, operating manual, DeltaLog9 software, and carrying strap. **The probes, tripod, carrying case and cables must be ordered separately.**

Deltalog9 : Additional copy of the software for data download and management on PC using Windows 98 to XP operating systems.

HD32.8.8 and HD32.8.16 Probes

All the thermocouple types K, J, T, N, R, S, B, and E can be connected using a standard miniature connector.

Other sizes are available on request.

HD32.8.8 and HD32.8.16 Accessories

9CPRS232 : Connection cable with Sub D 9-pole female connectors for RS232C (null modem)

CP22 : Connection cable USB 2.0 connector type A-connector type B

BAG32.2 : carrying case for the HD32.8 instrument & accessories

HD32.2 : Carrying strap

SWD 10 : 100-240VAC / 12VDC-1A stabilized mains power supply

VTRAP32 : Tripod complete with 6-input head and 5 probe holders code HD3218K

HD3218K : Shaft for a another probe.