



### HD32.7

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     |



### HD32.8.8

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

### HD32.8.16

16-input Data Logger for thermocouple 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 |



## HD32.7

### 8-input Data Logger

The **HD32.7** instrument is a rugged 8-input data logger for Pt100 temperature 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 128x64 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 HD32.7 data logger: in the field for machine or equipment measurements, plant or machine testing, production check, oven mapping.

### Technical specifications

#### Number of inputs

8x 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

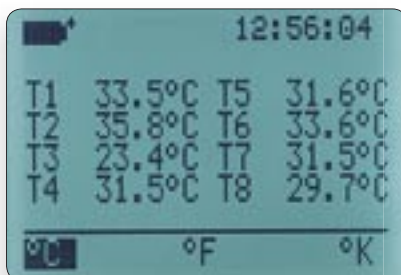
0.01°C (in the range ±199.99°C)  
0.1°C in the remaining range

#### Display

LCD backlit graphic display 128x64 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 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 absorbed @6VDC:

<60µA when the instrument is off  
<60µA 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 temperature -5 ... 50°C  
Storage temperature -25 ... 65°C  
Working relative humidity 0 ... 90% RH without condensation  
Protection degree IP64



12 Vdc 1A    USB 1.1 - 2.0    RS232C



### Instrument

|   |                                  |
|---|----------------------------------|
| Dimensions<br>(Length x Width x Height) | 220x180x50 mm                    |
| Weight                                  | 1100 g (batteries included)      |
| Materials                               | ABS, polycarbonate and aluminium |

### Probes

**All the Delta Ohm 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, Delta-Log9 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 probes

All the Pt100 temperature probes complete with SICRAM module can be connected to the instrument. **Other sizes are available on request.**

### 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 and accessories

**HD32CS:** Carrying strap

**SWD10:** 100-240VAC/12VDC-1A stabilized mains power supply

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

**HD3218K:** Shaft for another probe



HD32CS



SWD10



## HD32.8.8 8

### 8-input Data Logger for thermocouple

## HD32.8.16

### 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 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 128x64 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, external power supply 12VDC-1A or PC USB port.
- Consumption @6VDC:
  - <60µA when the instrument is off
  - <60µA in sleep mode with all probes connected
  - <40mA during data logging with all probes connected
- Use of the HD32.8.8 and HD32.8.16 data loggers: in the field for complex machine or equipment multi 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 and measurement range

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

°C, °F, °K

### Display

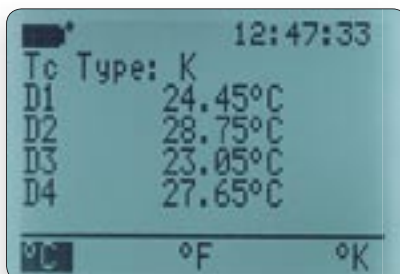
LCD backlit graphic display 128x64 pixel.



HD 32.8.16



HD 32.8.8



|                                  |  |
|----------------------------------|--|
| <i>Keyboard</i>                  | 15 keys; the instruments can be configured without a PC.   |
| <i>Keyboard locking function</i> | with password.   |
| <i>Memory</i>                    | Divided into 64 blocks.  |
| <i>Storage capacity</i>          | 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. |
| <i>Security of stored data</i>   | Unlimited.   |
| <i>Power supply</i>              | 4 1.5V alkaline C-BABY type batteries<br>External power supply 12VDC-1A. Connector, external Ø 5.5mm, internal Ø 2.1mm.<br>Power supply via the PC USB port.           |
| <i>Power absorbed @6VDC:</i>     | <60µA when the instrument is off<br><60µA in sleep mode with all probes connected<br><40mA during data logging with all probes connected                               |
| <i>Autonomy</i>                  | 200 hours with 7800mAh alkaline batteries, with all probes connected   |

|                             |  |
|-----------------------------|--|
| <i>Data download</i>        | RS232C from 1200 to 38400 baud, galvanically isolated. Sub D 9-pole male connector.<br>USB 1.1 – 2.0 galvanically isolated.                                    |
| <i>Operating conditions</i> | Operating temperature -5 ... 50°C<br>Storage temperature -25 ... 65°C<br>Working relative humidity 0 ... 90% RH without condensation<br>Protection degree IP64 |
| <i>Instrument</i>           | Dimensions (Length x Width x Height) 220x180x50 mm<br>Weight 1100 g (batteries included)<br>Materials ABS, polycarbonate and aluminium                         |

*Probes*

**All the thermocouple probes type K, J, T, N, 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 includes the HD32.8.8, 4 1.5V alkaline C-BABY type batteries, operating manual, DeltaLog9 software, carrying strap. **The probes, tripod, carrying case and cables must be ordered separately.**

**HD32.8.16: 16-input data logger** instrument for thermocouple types K, J, T, N, R, S, B, and E. The kit includes the HD32.8.16, 4 1.5V alkaline C-BABY type batteries, operating manual, DeltaLog9 software. **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 and accessories

**HD32CS:** Carrying strap

**SWD10:** 100-240VAC/12VDC-1A stabilized mains power supply

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

**HD3218K:** Shaft for another probe



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