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PORTABLE TEMPERATURE MULTI-INPUT DATALOGGERS

HD 32.7 8-INPUT DATA LOGGER FOR PT100 PROBES WITH SICRAM MODULE



- 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 (en la escala ±199.99°C)

0.1°C en el resto de la escala

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 □ 5.5mm, internal Ø 2.1mm

Power absorbed @6VDC

<60µA when the instrument is off

<60µA in sleep mode with 8 probes connected

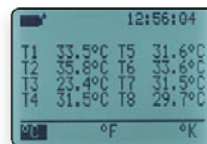
<40mA during data logging with 8 probes connected



12 Vdc 1A

USB 1.1 - 2.0

RS232C



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

Instrument	
Dimensions	(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

HD 32.7: 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 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



HD 32.8.8 8-INPUT DATA LOGGER FOR THERMOCOUPLE K-J-T-N-R-S-B-E

HD 32.8.16 16-INPUT DATA LOGGER FOR THERMOCOUPLE K-J-T-N-R-S-B-E



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

TCK	-200 ... +1.370°C ±0.1°C to 600°C ±0.2°C more 600°C
TCJ	-100 ... +750°C ±0.1°C to 400°C ±0.2°C more 400°C
TCT	-200 ... +400°C ±0.1°C
TCN	-200 ... +1.300°C ±0.1°C to 600°C ±0.2°C more 600°C
TCR	+200 ... +1.480°C ±0.3°C
TCS	+200 ... +1.480°C ±0.3°C
TCB	+200 ... +1.800°C ±0.4°C
TCE	-200 ... +750°C ±0.1°C to 300°C ±0.2°C more 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

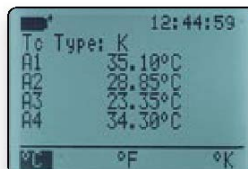
0.1°C/year



HD 32.8.16



HD 32.8.8



Internal watch accuracy

1min/month max deviation

Unit of measurement

°C, °F, °K.

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 □ 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 downloa

RS232C from 1200 to 38400 baud, galvanically isolated.

Sub D 9-pole male connector.

USB 1.1 – 2.0 galvanically isolated.

Operating conditions

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Working relative humidity 0 ... 90% RH without condensation

Protection degree IP64



Instrument

Dimensions

(Length x Width x Height) 220x180x50 mm

Weight

1100 g (batteries included)

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 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.

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 HD32.7 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