



TECHNICAL SPECIFICATIONS

<i>Number of inputs</i>	8x 8-pole male DIN45326 connectors.
<i>Instrument accuracy during data logging</i>	±0.01°C ±1 digit (in the range ±199.99°C) ±0.1°C ±1 digit in the remaining range
<i>Internal watch accuracy</i>	1 min/month max deviation
<i>Unit of measurement</i>	°C, °F, °K
<i>Resolution</i>	0.01°C (in the range ±199.99°C) 0.1°C in the remaining range
<i>Display</i>	LCD backlit graphic display 128x64 pixel.
<i>Keyboard</i>	15 keys; it can be configured without a PC.
<i>Keyboard locking</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.

HD 32.7 DATALOGGER

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 or Pt100 4-wire probes.

- 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.



⊙ 12 Vdc 1A

☐ USB 1.1 - 2.0

○ RS232C



Power supply

4 1.5V alkaline C-BABY type batteries
External power supply 12VDC-1A.
Connector, external \varnothing 5.5mm, internal \varnothing 2.1mm.

Power absorbed @6VDC:

<60 μ A when the instrument is off
<60 μ 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 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..., TP87..., or Pt100 4-wire probes 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 or Pt100 4-wire probes. 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 Vista operating systems.

HD32.7 PROBES

All the Pt100 temperature probes complete with SICRAM module or Pt100 4-wire probes can be connected to the instrument. **Other sizes are available on request.**

TECHNICAL DATA OF PROBES AND MODULES EQUIPPED WITH INSTRUMENT Temperature probes Pt100 sensor with SICRAM module

Model	Type	Application field	Accuracy
TP472I	Immersion	-196°C...+500°C	$\pm 0.25^\circ\text{C}$ (-196°C...+350°C) $\pm 0.4^\circ\text{C}$ (+350°C...+500°C)
TP472I.0	Immersion	-50°C...+400°C	$\pm 0.25^\circ\text{C}$ (-50°C...+350°C) $\pm 0.4^\circ\text{C}$ (+350°C...+400°C)
TP473P	Penetration	-50°C...+400°C	$\pm 0.25^\circ\text{C}$ (-50°C...+350°C) $\pm 0.4^\circ\text{C}$ (+350°C...+400°C)
TP473P.0	Penetration	-50°C...+400°C	$\pm 0.25^\circ\text{C}$ (-50°C...+350°C) $\pm 0.4^\circ\text{C}$ (+350°C...+400°C)
TP474C	Contact	-50°C...+400°C	$\pm 0.3^\circ\text{C}$ (-50°C...+350°C) $\pm 0.4^\circ\text{C}$ (+350°C...+400°C)
TP474C.0	Contact	-50°C...+400°C	$\pm 0.3^\circ\text{C}$ (-50°C...+350°C) $\pm 0.4^\circ\text{C}$ (+350°C...+400°C)
TP475A.0	Air	-50°C...+250°C	$\pm 0.3^\circ\text{C}$ (-50°C...+250°C)
TP472I.5	Immersion	-50°C...+400°C	$\pm 0.3^\circ\text{C}$ (-50°C...+350°C) $\pm 0.4^\circ\text{C}$ (+350°C...+400°C)
TP472I.10	Immersion	-50°C...+400°C	$\pm 0.30^\circ\text{C}$ (-50°C...+350°C) $\pm 0.4^\circ\text{C}$ (+350°C...+400°C)
TP49A	Immersion	-70°C...+400°C	$\pm 0.25^\circ\text{C}$ (-50°C...+350°C) $\pm 0.4^\circ\text{C}$ (+350°C...+400°C)
TP49AC	Contact	-70°C...+400°C	$\pm 0.25^\circ\text{C}$ (-50°C...+350°C) $\pm 0.4^\circ\text{C}$ (+350°C...+400°C)
TP49AP	Penetration	-70°C...+400°C	$\pm 0.25^\circ\text{C}$ (-50°C...+350°C) $\pm 0.4^\circ\text{C}$ (+350°C...+400°C)
TP875	Globe-thermometer \varnothing 150mm	-30°C...+120°C	$\pm 0.25^\circ\text{C}$
TP876	Globe-thermometer \varnothing 50mm	-30°C...+120°C	$\pm 0.25^\circ\text{C}$
TP87	Immersion	-50°C...+200°C	$\pm 0.25^\circ\text{C}$
TP878 TP878.1	Solar panels	+5°C...+80°C	$\pm 0.25^\circ\text{C}$
TP879	For compost	-20°C...+120°C	$\pm 0.25^\circ\text{C}$

Common features

Temperature drift @20°C 0.003%/°C

4 wires Pt100 and 2 wires Pt1000 Probes

Model	Type	Application field	Accuracy
TP47.100	4 wires Pt100	-50...+400°C	Class A
TP47.1000	2 wires Pt1000	-50...+400°C	Class A

Common features

Temperature drift @20°C

Pt100 0.003%/°C

Pt1000 0.005%/°C

HD32.7 ACCESSORIES

Probes equipped with SICRAM module

TP472I: Immersion probe, Pt100sensor. Stem \varnothing 3 mm, length 300 mm. Cable 2 meters long.

TP472I.0: Immersion probe, Pt100sensor. Stem \varnothing 3 mm, length 230 mm. Cable 2 meters long.

TP473P: Penetration probe, Pt100sensor. Stem \varnothing 4mm, length 150 mm. Cable 2 meters long.

TP473P.0: Penetration probe, Pt100sensor. Stem \varnothing 4mm, length 150 mm. Cable 2 meters long.

TP474C: Contact probe, Pt100sensor. Stem \varnothing 4mm, length 230mm, contact surface \varnothing 5mm. Cable 2 meters long.

TP474C.0: Contact probe, Pt100sensor. Stem \varnothing 4mm, length 230mm, contact surface \varnothing 5mm. Cable 2 meters long.

TP475A.0: Air probe, Pt100sensor. Stem \varnothing 4mm, length 230mm. Cable 2 meters long.

TP472I.5: Immersion probe, Pt100sensor. Stem \varnothing 6mm, length 500 mm. Cable 2 meters long.



TP472I.10: Immersion probe, Pt100sensor. Stem \varnothing 6mm, length 1,000mm. Cable 2 meters long.

TP49A: Immersion probe, Pt100sensor. Stem \varnothing 2.7mm, length 150mm. Cable 2 meters long. Aluminium handle.

TP49AC: Contact probe, Pt100sensor. Stem \varnothing 4 mm, length 150mm. Cable 2 meters long. Aluminium handle.

TP49AP: Penetration probe, Pt100sensor. Stem \varnothing 2.7mm, length 150mm. Cable 2 meters long. Aluminium handle.

TP875: Globe thermometer \varnothing 150 mm with handle. Cable 2 meters long.

TP876: Globe thermometer \varnothing 50 mm with handle. Cable 2 meters long.

TP87: Immersion probe, Pt100sensor. Stem \varnothing 3 mm, length 70 mm. Cable 2 meters long.

TP878: Contact probe for solar panels. Cable 2 meters long.

TP878.1: Contact probe for solar panels. Cable 5 meters long

TP879: Penetration probe for compost. Stem \varnothing 8 mm, length 1 meter. Cable 2 meters long.

Temperature probes without SICRAM module

TP47.100: Direct 4 wires Pt100 sensor immersion probe. Stem \varnothing 3 mm, length 230mm. 4 wires connection cable with connector, 2 meters long.

TP47.1000: Pt1000 sensor immersion probe. Stem \varnothing 3 mm, length 230mm. 2 wires connection cable with connector, 2 meters long.

TP47: Only connector for probe connection without SICRAM module: direct 3 and 4 wires Pt100, 2 wires Pt1000.

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

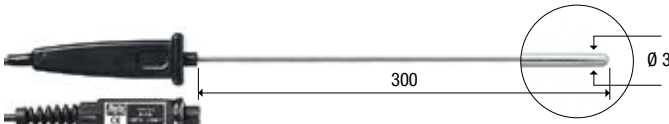
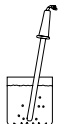
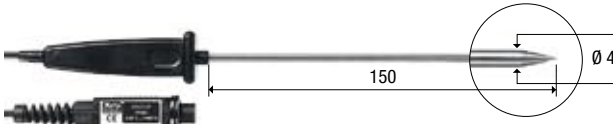
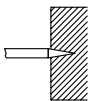
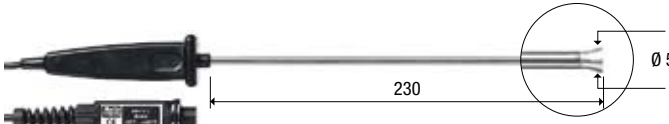
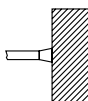
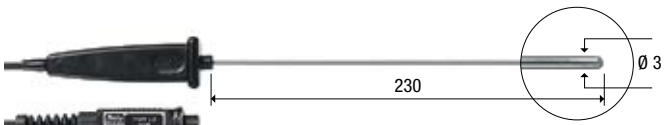

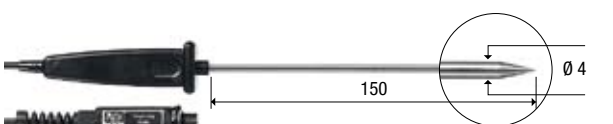
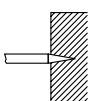
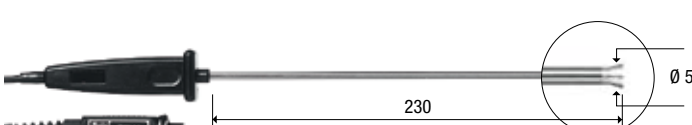
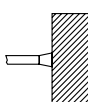
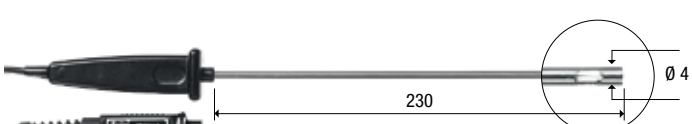

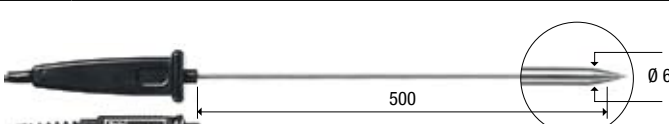
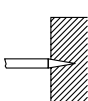
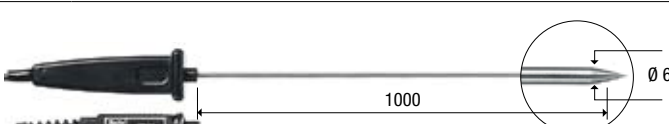
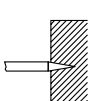
HD32CS: Carrying strap

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

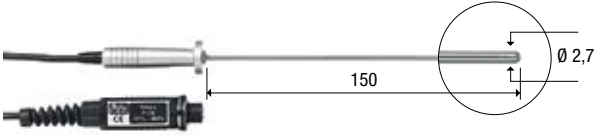
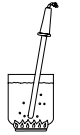
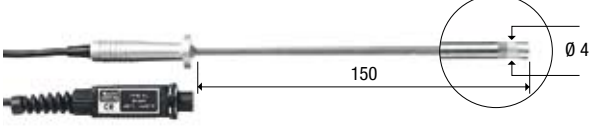
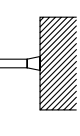
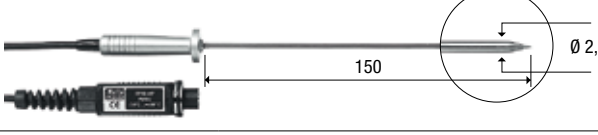
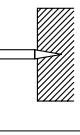
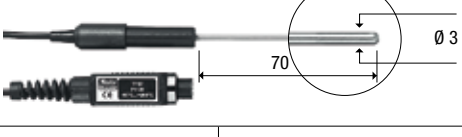
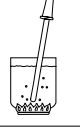
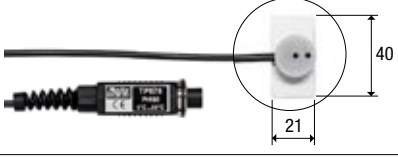
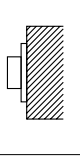
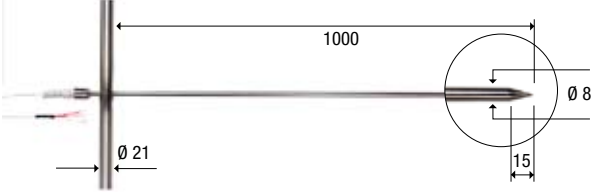
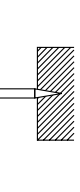


VTRAP32: Tripod complete with 6-input head and 5 probe holders code HD3218K

HD3218K: Shaft for another probe

PT100 PROBES FOR PORTABLE INSTRUMENTS EQUIPPED WITH SICRAM MODULE

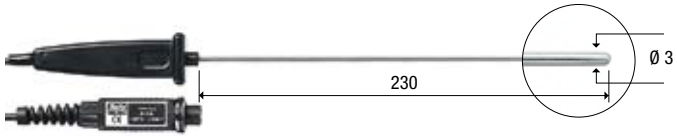
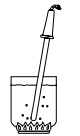
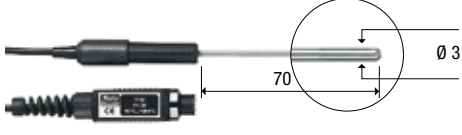

CODE.	°C max	τ s	DIMENSIONS	USE
TP 472 I	-196 +500	3s		
TP 473 P	-50 +400	5s		
TP 474 C	-50 +400	5s		
TP 472 I.O	-50 +400	3s		
TP 473 P.O	-50 +400	5s		
TP 474 C.O	-50 +400	5s		
TP 475 A.O	-50 +250	12s		
TP 472 I.5	-50 +400	3s		
TP 472 I.10	-50 +400	3s		

Pt100 PROBES FOR PORTABLE INSTRUMENTS EQUIPPED WITH SICRAM MODULE

CODE	°C max	τ s	DIMENSIONS		USE
TP 49 A	-70 +400	3,5s			
TP 49 AC	-70 +400	5,5s			
TP 49 AP	-70 +400	4s			
TP 87	-50 +200	3s			
TP 878	+5 +80	60s	Contact probe for solar panels. Cable L = 2m.		
TP 878.1	+5 +80	60s	Contact probe for solar panels. Cable L = 5m.		
TP879	-20 +120	60s	Penetration probe for compost. Cable L = 2m		
TP 875	-30 +120	15s	Globe-thermometer probe for measuring radiant heat \varnothing 150 mm. (ISO7243, ISO7726). 4 wires Pt100 Sensor cable L=2m. Equipped with SICRAM module.		
TP 876	-30 +120	15s	Globe-thermometer probe for measuring radiant heat \varnothing 50 mm. (ISO7243, ISO7726). 4 wires Pt100 Sensor cable L=2m. Equipped with SICRAM module.		

Datalogger

Pt100 / Pt1000 SENSOR PROBES WITH TP 47 MODULE

CODE	°C max	τ s	DIMENSIONS		USE
TP 47.100 (Pt100) TP 47.1000 (Pt1000)	-50 +400	3s			
TP 87.100 (Pt100) TP 87.1000 (Pt1000)	-50 +200	3s			
TP 47	Only connector for connection of probes without SICRAM module: direct 3 and 4 wires Pt100, 2 wires Pt1000.				

HD32.8.8 - HD32.8.16 8 OR 16-INPUT DATA LOGGER FOR THERMOCOUPLES

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 ±0.2°C over 600°C
Tc: J	-100 ... +750°C / ±0.1°C up to 400°C ±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 ±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 ±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.



HD 32.8.16



HD 32.8.8

Tolerance classes for thermocouples (reference junction at 0°C)

Type of thermocouple	Tolerance Class 1	Tolerance Class 2	Tolerance Class 3 ⁽¹⁾
Type T Temperature interval Tolerance Temperature interval Tolerance	from -40 to +125°C ± 0.5°C from 125 to 350°C ± 0.004 · ltr	from -40 to +133°C ± 1°C from 133 to 350°C ± 0.0075 · ltr	from -67 to +40°C ± 1°C from -200 to -67°C ± 0.015 · ltr
Type E Temperature interval Tolerance Temperature interval Tolerance	from -40 to +375°C ± 1.5°C from 375 to 800°C ± 0.004 · ltr	from -40 to +333°C ± 2.5°C from 333 to 900°C ± 0.0075 · ltr	from -167 to +40°C ± 2.5°C from -200 to -167°C ± 0.015 · ltr
Type J Temperature interval Tolerance Temperature interval Tolerance	from -40 to +375°C ± 1.5°C from 375 to 750°C ± 0.004 · ltr	from -40 to +333°C ± 2.5°C from 333 to 750°C ± 0.0075 · ltr	- - - -
Type K, type N Temperature interval Tolerance Temperature interval Tolerance	from -40 to +375°C ± 1.5°C from 375 to 1000°C ± 0.004 · ltr	from 40 to +333°C ± 2.5°C from 333 to 1200°C ± 0.0075 · ltr	from -167 to +40°C ± 2.5°C from -200 to -167°C ± 0.015 · ltr
Type R, type S Temperature interval Tolerance Temperature interval Tolerance	from 0 to +1100°C ± 1°C from 1100 to 1600°C ± [1 + 0.003 (t-1 100)] °C	from 0 to +600°C ± 1.5°C from 600 to 1600°C ± 0.0025 · ltr	- - - -
Type B Temperature interval Tolerance Temperature interval Tolerance	- - - -	- - from 600 to 1700 °C ± 0.0025 · ltr	from +600 to +800°C + 4°C from 800 to 1700°C ± 0.005 · ltr

⁽¹⁾ Materials for thermocouples are generally supplied so to comply with the factory tolerances specified in the table for temperatures over -40°C. However these materials can sometimes not comply with the factory tolerances for the low temperatures reported under Class 3, for thermocouples of T, E, K and N type, when thermocouples have to comply at the same time the limits of Class 3 and Class 1 and/or Class 2.



<i>Resolution</i>	0.05°C in the range ±199.95°C 0.1°C in the remaining range
<i>Temperature drift @20°C</i>	0.02%/°C
<i>Drift after 1 year</i>	0.1°C/year
<i>Internal watch accuracy</i>	1min/month max deviation
<i>Unit of measurement</i>	°C, °F, °K
<i>Display</i>	LCD backlit graphic display 128x64 pixel.
<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 External power supply 12VDC-1A. Connector, external Ø 5.5mm, internal Ø 2.1mm. Power supply via the PC USB port.
<i>Power absorbed @6VDC:</i>	<60µA when the instrument is off <60µA in sleep mode with all probes connected <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. USB 1.1 – 2.0 galvanically isolated.
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<i>Operating conditions</i>	Operating temperature -5 ... 50°C Storage temperature -25 ... 65°C Working relative humidity 0 ... 90% RH without condensation Protection degree IP64
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<i>Instrument</i>	Dimensions (Length x Width x Height) 220x180x50 mm Weight 1100 g (batteries included) Materials ABS, polycarbonate and aluminium
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<i>Probes</i>	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 (pages 268-278), Delta Ohm can supply different probes on request.
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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.


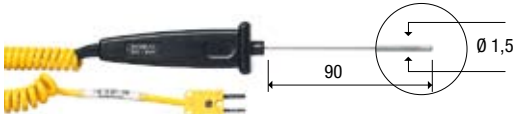


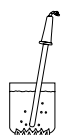

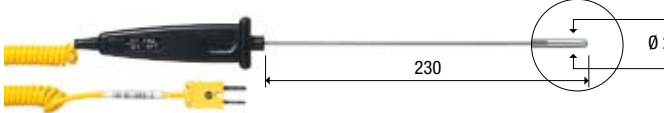




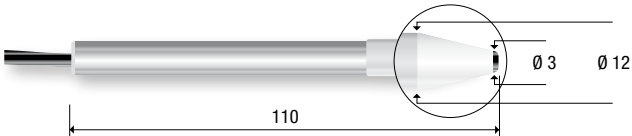

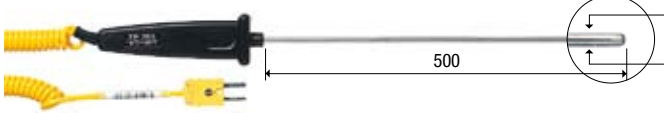
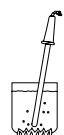


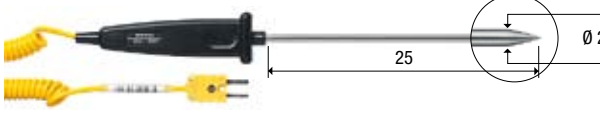

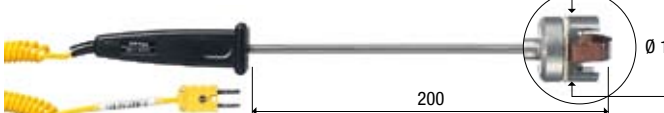

CM: Empty mignon plug-case for type K thermocouples.

CS: Flying mignon socket for type K thermocouples, see picture page 270.

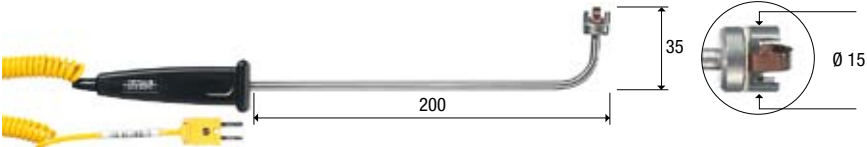
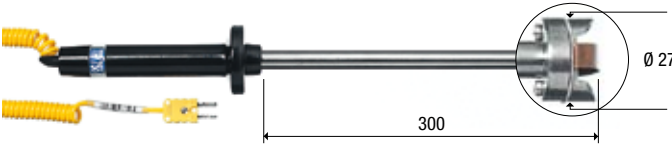

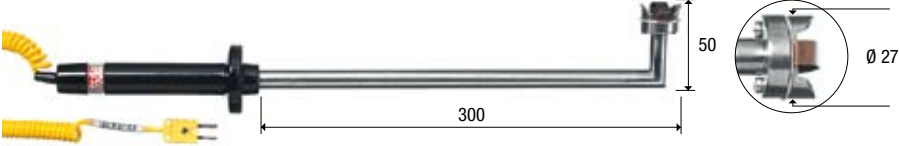

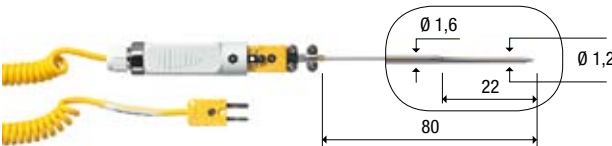

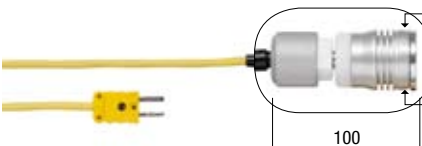

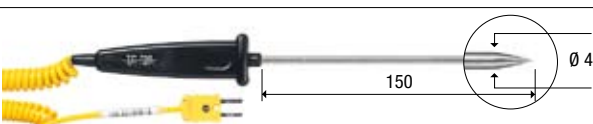



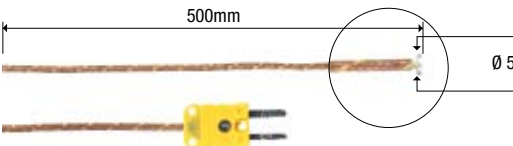

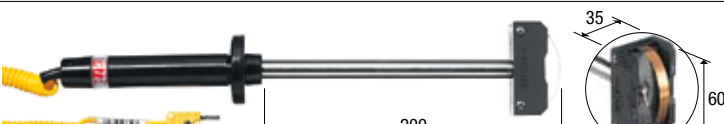

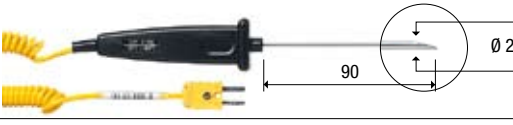

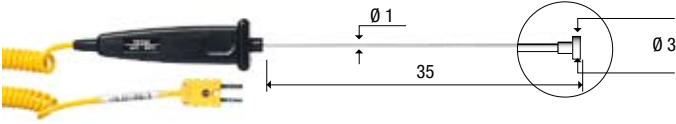

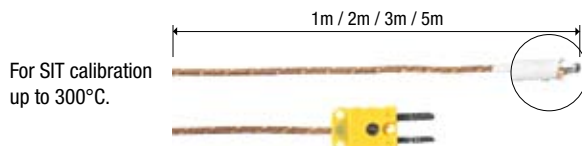

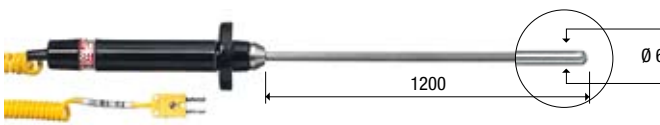
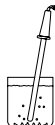


THERMOCOUPLE PROBES FOR PORTABLE INSTRUMENTS

TYPE "K" (CHROMEL - ALUMEL) THERMOCOUPLE PROBES


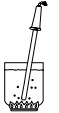
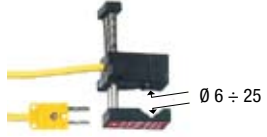
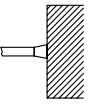
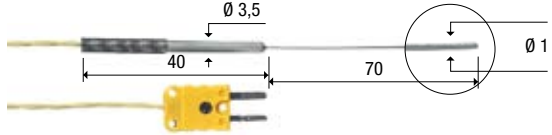
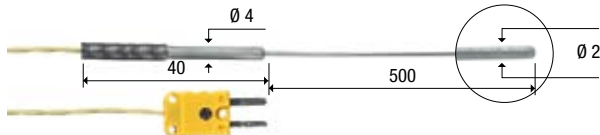
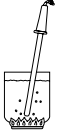

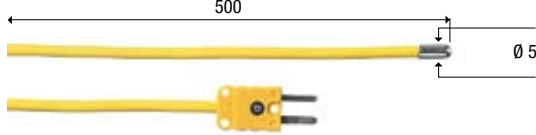
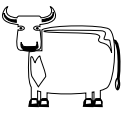


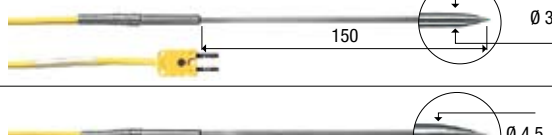

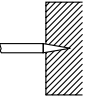

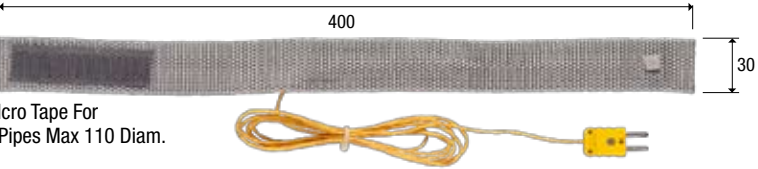
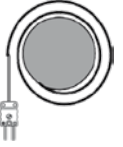


CODE	°C max	τ s	DIMENSIONS	USE
TP 741	800	2s		
TP 741/1	400	2s		
TP 741/2	800	2s		
TP 742	800	2s		
TP 742/1	400	2s		
TP 742/2	800	2s		
TP 743	800	3s		
TP 744	400	4s		
TP 745	500	5s		
TP 746	250	2s		
TP 750	1000	3s		
TP 750.0	800	3s		
TP 751	200	2s		
TP 754	500	2s		

TYPE "K" (CHROMEL - ALUMEL) THERMOCOUPLE PROBES

CODE	°C max	τ s	DIMENSIONS	USE
TP 754/9	500	2s		
TP 755	800	2s		
TP 755/9	800	2s		
TP 756	200	2s		
TP 757	180	30s		
TP 758	400	4s		
TP 758.1	400	4s		
TP 772	400	3s		
TP 774	250	2s		
TP 776	200	2s		
TP 777	200	3s		
TP 647 TP 647/2 TP 647/3 TP 647/5	300 300 300 300	2s 2s 2s 2s	<p>For SIT calibration up to 300°C.</p> 	
TP 651	1200	6s		

Datalogger

TYPE "K" (CHROMEL - ALUMEL) THERMOCOUPLE PROBES

CODE	°C max	τ s	DIMENSIONS	USE
TP 652	1200	6s		
TP 655	180	2s		
TP 656	200	1s		
TP 656/1	1000	1s		
TP 656/2	1000	1s		
TP 657/1	100	5s		
TP 658	100	2s		
TP 659	400	3s		
TP 660	400	4s		
TP 661	-60 +50	30s		
TP 662	110	120s		
CM CS	"K" "K"			
PW	"K"			

Response time for a 63% variation ($\tau_{0,63}$)

Response time τ s is the reaction time of the sensor to a temperature variation, with a variation of the measured signal to a given percentage (63%) of the variation.

Response times are referred to:

Immersion probes when into water at 100°C. • Contact probes when in contact with a metallic surface at 200°C. • Air probes at air temperature of 100°C.