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*The PHYSICS Line testers range is available
from your distributor*

 **CHAUVIN
ARNOUX**

Test & Measurement Division

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PHYSICS *Line*



*The Testers
for your
Environment*

 **CHAUVIN
ARNOUX**

Thermometers with K-type thermocouples

Check temperatures

up to 1,350°C

the easy way



C.A 861

Ref. P01. 6501. 01Z

- 1 K-type thermocouple input
- Measurement range:
- 40°C to + 1,350°C
- Accuracy:
± (0.1 % of reading + 1°C)
- ◆ 3^{1/2} digit display
(2,000-count)
- ◆ Memorising
of maximum value
- ◆ Choice of resolution:
0.1°C or 1°C

- One 9 V battery
- Dimensions:
173 x 60.5 x 38 mm
- Weight: 185 g
- **Shockproof
protective sheath**



Delivered with 1 K-type thermocouple flexible sensor



C.A 863

Ref. P01. 6502. 01Z

- 2 K-type
thermocouple inputs
- Differential temperature
measurements ΔT
- Measurement range:
- 50°C to + 1,300°C
- Accuracy:
± (0.3 % of reading
+ 1°C)
- ◆ Choice of
measurement unit:
°C or °F
- ◆ Hold function
- ◆ Backlighting

Wide range
of sensors
available



Delivered with 2 K-type thermocouple flexible sensors

Thermometry with contact

PHYSICS *Line*

Pt 100 Thermometer

Precision temperature measurement



C.A 865
Ref. P01. 6503. 01Z

- 1 input with Pt 100 sensor
- Measurement range: - 50°C to + 200°C
- Accuracy: $\pm 0.5^\circ\text{C}$
- Resolution: 0.1°C
- ◆ $3\frac{1}{2}$ digit display (2,000-count)
- ◆ Memorising of maximum value
- ◆ Choice of measurement unit: $^\circ\text{C}$ or $^\circ\text{F}$
- ◆ Hold function
- ◆ Backlighting
- One 9 V battery
- Dimensions: 173 x 60.5 x 38 mm
- Weight: 175 g
- **Shockproof protective sheath**



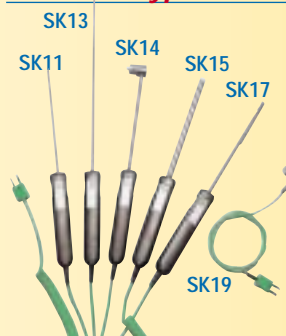
Delivered with Pt 100 sensor

Accessories

PHYSICS *Line*

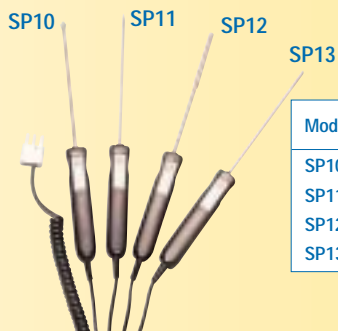
is also a wide range of temperature sensors.

K-type thermocouple sensors



Model	Measurement range
SK11 Needle	- 50... + 600°C
SK13 General purpose	- 50... + 1,100°C
SK14 Surface-elbowed	- 50... + 450°C
SK15 Surface	- 50... + 900°C
SK17 Air	- 50... + 600°C
SK19 Surface-magnet	- 50... + 200°C

Pt 100 Ω sensors



Model	Measurement range
SP10 Surface	- 50... + 200°C
SP11 Needle	- 100... + 600°C
SP12 Air	- 100... + 600°C
SP13 Liquid	- 100... + 600°C

Not all the existing sensors are shown in these two photos

Please call us for further details

PHYSICS *Line*

Infrared thermometer

Infrared measurement

- Measuring range: - 20 to + 550°C
- Adjustable emissivity from 0.1 to 1
- Targeting range: D/Ø = 10/1
- Laser targeting
- Accuracy: ± 2 % reading or 3°C
- Resolution: 1°C
- Response time: 1 s

Measurement with K couple

- Measuring range: - 40 to + 1,350°C
- Accuracy: ± 0.1% reading +1°C
- Resolution: 1°C

- ◆ 3^{1/2} digit display (2,000-count)
- ◆ Auto-Hold function
- ◆ High and low alarms
- ◆ Memorising of maximum and minimum value
- ◆ Backlighting

- One 9 V battery
- Dimensions: 173 x 60.5 x 38 mm
- Weight: 255 g
- Shockproof protective sheath



C.A. 876
Ref. P01. 6514. 03Z

Infrared sensor

Use your multimeter to measure temperatures at a distance

- Measurement range: - 20°C to + 260°C
- Accuracy: ± 2 % of reading or 3°C
- Resolution: 1°C
- Targeting range: D/Ø = 10/1
- Fixed emissivity at 0.95
- Output: 10 mV / °C
- ◆ Auto-Hold / Battery charge indicator

C.A. 874
Ref. P01. 6516. 01Z

- One 9 V battery
- Dimensions: 173 x 60.5 x 38 mm
- Weight: 217 g
- Shockproof protective sheath

Adapts to any multimeter



PHYSICS Line

Thermometry without contact

Infrared Thermometers



C.A. 870
Ref. P01. 6514. 01Z

- Measurement range:
- 20°C to + 260°C
- Accuracy
± 2 % of reading
or 3°C
- Resolution: 1°C
- Targeting range
D/Ø = 10/1
- Fixed emissivity
at 0.95

**Measure
temperatures
at a distance
without
any risk**



- ◆ 3^{1/2} digit display (2,000-count)
- ◆ Auto-Hold function
- ◆ Choice of measurement unit: °C or °F
- ◆ Automatic shut-off
- ◆ Backlighting

- ▶ One 9 V battery
- ▶ Dimensions:
173 x 60.5 x 38 mm
- ▶ Weight: 190 g
- ▶ Shockproof
protective sheath

**Aim at
your target**

**With laser
targeting**



C.A. 872
Ref. P01. 6514. 02Z

PHYSICS *Line*

Thermometry without contact

Thermo-hygrometer

- Measurement range:
 - 20°C to + 60°C
 - 0 to 100 % RH
- Temperature accuracy:
 - ± 0.5°C from 0 to 60°C
 - ± 1°C from - 20°C to 0°C
- Hygrometric accuracy:
 - ± 2,5 % RH from 10 to 90% RH
 - ± 5% RH from 0 to 10% RH
 - and from 90 to 100% RH
- Resolution:
 - 0.1°C and 0.1% RH
- ◆ 3^{1/2} digit display (2,000-count)
- ◆ Functions: MAX / HOLD / °C or °F / Backlighting

- One 9 V battery
- Dimensions: 173 x 60.5 x 38 mm
- Weight: 185 g
- Shockproof protective sheath

C.A 846
Ref. P01. 1563. 01Z



Use the 33 % RH (P01. 1564. 02) and 75 % RH (P01. 1564. 01) humidity standards to calibrate your hygrometer.

Materials humidity indicator

- Measurement range:
 - 6 to 100 % of humidity rate
- Two 20-LED display scales:
 - from 6 to 23 % / 24 to 100%
- ◆ Integrated and replaceable electrodes (L=12 mm)
- ◆ Utilisation environment:
 - from 0 to 50°C,
 - < 80 % HR
- ◆ Battery charge indicator

- One 9 V battery
- Dimensions: 195 x 60.5 x 38 mm
- Weight: 160 g
- Shockproof protective sheath

C.A 847
Ref. P01. 1563. 02Z



NEW



PHYSICS *Line*

Co gas detector



- Measurement range: from 0 to 1000 ppm
- 2 measurement modes: "normal" for detection of CO source / "average" for precise measurement
- "Beeper" indication of possible risk (CO concentration bearable by people)
- Accuracy: $\pm 5 \text{ ppm} \pm 5\%$ of reading
- ◆ Memorising of maximum value
- ◆ Hold function
- ◆ 3^{1/2} digit display (2,000-count)

- One 9 V battery
- Dimensions: 237 x 60,5 x 38 mm
- Weight: 190 g
- Shockproof protective sheath

C.A 895
Ref. P01. 6510. 01Z

NEW



Illumination meters

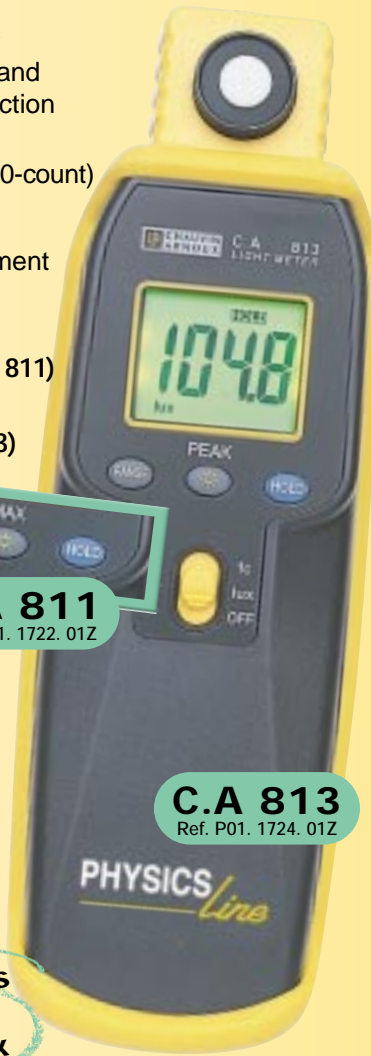
- Measurement range:
C.A 811 : 20 to 20,000 lux
Accuracy: $\pm 18 \% + 2 \text{ cts}$
C.A 813 : 20 to 200,000 lux
Accuracy: $\pm 11 \% + 2 \text{ cts}$
- Resolution: 0.01 lux
- Spectral correction and IEC incidence correction
- ◆ 3^{1/2} digit display (2,000-count)
- ◆ Hold function
- ◆ Choice of measurement unit: lux or fc
- ◆ Memorising of maximum value (C.A 811)
- ◆ Display of peak value (C.A 813)

- One 9 V battery
- Dimensions: 173 x 60.5 x 38 mm
- Weight: 214 g - 223 g
- Shockproof protective sheath

C.A 811
Ref. P01. 1722. 01Z

C.A 813
Ref. P01. 1724. 01Z

Measurements until 200 000 lux

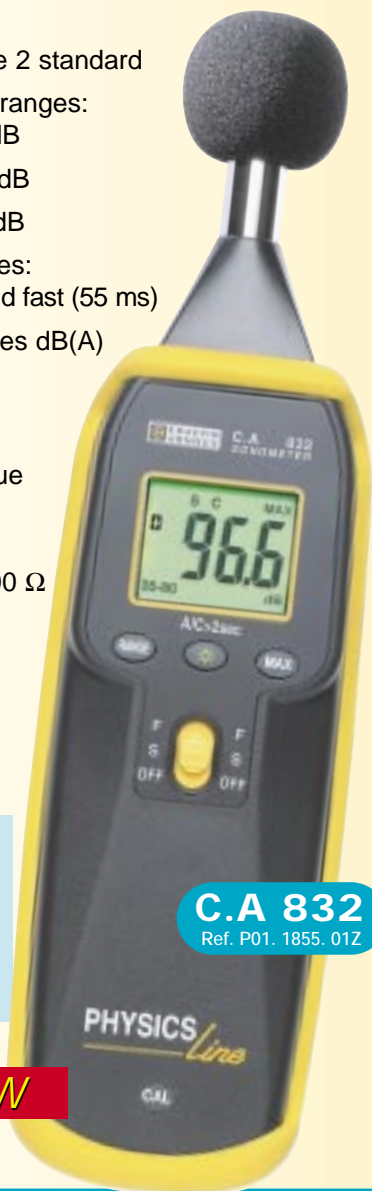


PHYSICS *Line*

Sonometer

- Designed per IEC 651 type 2 standard
- 3 measurement ranges: from 35 to 130 dB
- Accuracy: ± 1.5 dB
- Resolution: 0.1 dB
- 2 integration times: slow (550 ms) and fast (55 ms)
- 2 weighting curves dB(A) and dB(C)
- ◆ Memorising of maximum value
- ◆ Analogue output 10 mV/dB and 1 V_{eff} on 600 Ω
- ◆ Option of positioning on tripod
- ◆ 3^{1/2} digit display (2,000-count)

- One 9 V battery
- Dimensions: 237 x 60.5 x 38 mm
- Weight : 230 g
- **Shockproof protective sheath**



C.A 832
Ref. P01. 1855. 01Z

NEW

*Calibrator C.A 833 : P01. 1853. 01
Source adjusted to 94 dB
for the calibration of your sonometer*

Thermometry with contact

Thermometers with K-type thermocouples

C.A 861 Ref. P01. 6501. 01Z 2

C.A 863 Ref. P01. 6502. 01Z 3

Pt 100 Thermometer

C.A 865 Ref. P01. 6503. 01Z 4

Accessories 5

Thermometry without contact

Infrared thermometer

C.A 876 Ref. P01. 6514. 03Z 6

Infrared sensor

C.A 874 Ref. P01. 6516. 01Z 7

Infrared Thermometers

C.A 870 Ref. P01. 6514. 01Z 8

C.A 872 Ref. P01. 6514. 02Z 9

Hygrometry

Thermo-hygrometer

C.A 846 Ref. P01. 1563. 01Z 10

Materials humidity indicator

C.A 847 Ref. P01. 1563. 02Z 11

Gas detection

Co gas detector

C.A 895 Ref. P01. 6510. 01Z 12

Light measurement

Illumination meters

C.A 811 Ref. P01. 1722. 01Z 12

C.A 813 Ref. P01. 1724. 01Z 13

Sound measurement

Sonometer

C.A 832 Ref. P01. 1855. 01Z 14