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



ASRAS CO.,LTD.

1694, 1694/1 Prachasongkhro Road,
Dindaeng, Dindaeng, Bangkok 10400

Tel. 02-692-3980, Fax. 02-692-3978

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Test & Measurement Division

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PHYSICS *Line*



*The Testers
for your
Environment*



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

- 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



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

**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**



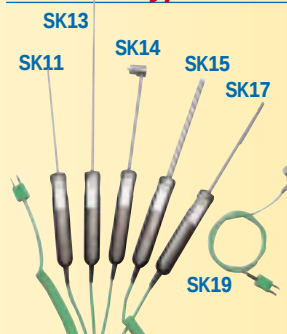
Delivered with Pt 100 sensor

Accessories

PHYSICS *Line*

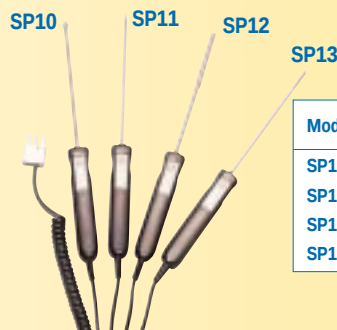
is also a wide range of temperature sensors.

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: $\pm 2\%$ reading or 3°C
- Resolution: 1°C
- Response time: 1 s

Measurement with K couple

- Measuring range: - 40 to + 1,350°C
- Accuracy: $\pm 0.1\%$ 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

NEW

Infrared sensor

Use your multimeter to measure temperatures at a distance

- Measurement range: - 20°C to + 260°C
- Accuracy: $\pm 2\%$ 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

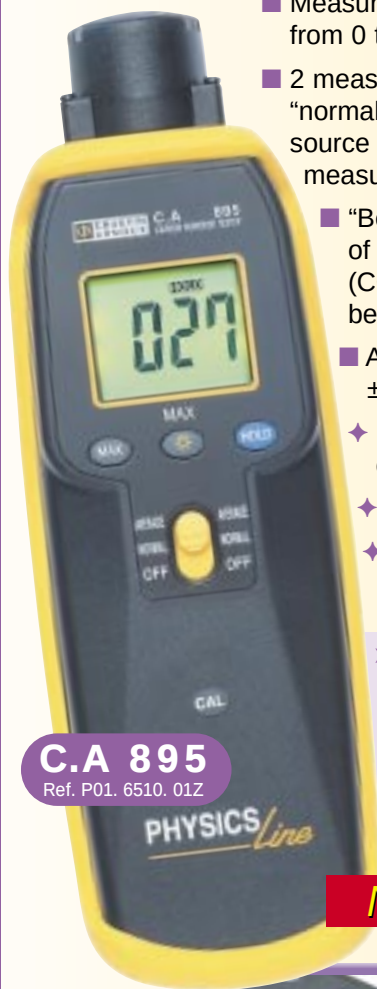
Ref. P01. 1563. 02Z

NEW



PHYSICS *Line*

Co gas detector



C.A. 895

Ref. P01. 6510. 01Z

- 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:
± 5 ppm ± 5% of reading
- ◆ Memorising
of maximum value
- ◆ Hold function
- ◆ 3^{1/2} digit display
(2,000-count)

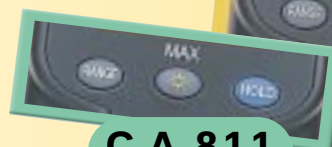
- One 9 V battery
- Dimensions:
237 x 60,5 x 38 mm
- Weight: 190 g
- Shockproof
protective sheath

NEW



Illumination meters

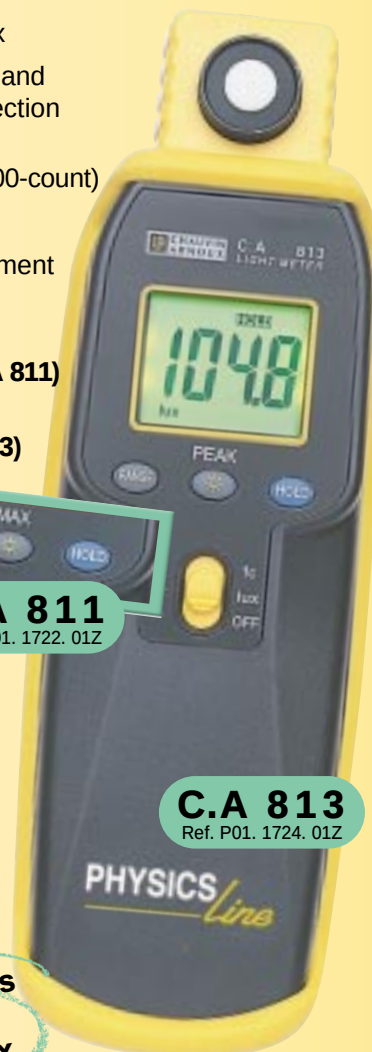
- Measurement range:
C.A. 811 : 20 to 20,000 lux
Accuracy: ± 18 % + 2 cts
C.A. 813 : 20 to 200,000 lux
Accuracy: ± 11 % + 2 cts
- Resolution: 0.01 lux
- Spectral correction and
IEC incidence correction
- ◆ 3^{1/2} digit display (2,000-count)
- ◆ Hold function
- ◆ Choice of measurement
unit: lux or fc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



C.A. 811

Ref. P01. 1722. 01Z

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



C.A. 813

Ref. P01. 1724. 01Z

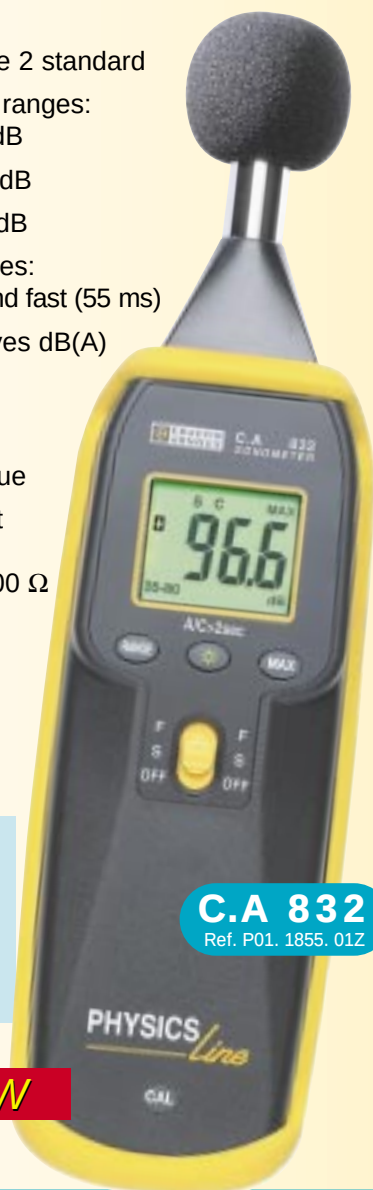
**Measurements
until
200 000 lux**

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**