

Thermo-hygrometers



C.A. 846

- > 2 in 1: hygrometry and ambient temperature measurement
- > Easy to use

C.A. 1244

- > 3 in 1: hygrometry, ambient temperature and dew point measurement
- > Remote probe for greater accessibility
- > Particularly easy to read with its dual backlit display

C.A. 847

- > Measure the humidity of your materials quickly and simply: prick the material and note the value corresponding to the LED lit

Specifications

	C.A. 846	C.A. 1244	C.A. 847
RH range	0 to 100 % RH	5 to 95 % RH	6 to 100 % RH
RH accuracy	±2.5 % at 25 °C from 10 % to 90 % ±5 % at 25 °C from 0 % to 10 % RH and from 90 % to 100 %	+1.8 % RH	±1 LED
Temperature range	-20 °C to +60 °C	-20 °C to +70 °C	-
Temperature accuracy	±0.5 °C	±0.4 °C R + 0.3 °C	-
Dew point	-	Yes	-
Functions	Max, Hold	Min, Avg	-
Dimensions / weight	173 x 60.5 x 38 mm / 185 g	147.7 x 70.6 x 34.7 mm / 190 g	173 x 60.5 x 38 mm / 160 g

State at delivery

- > The **C.A. 846**, **C.A. 1244** and **C.A. 847** delivered with 1 battery and 1 user guide in 5 languages

Accessories/Replacement parts



> For C.A. 846 and C.A. 1244

- 33 % salt cartridge > P01156402
- 75 % salt cartridge > P01156401

> For C.A. 1244

- Telescopic extension > P01102012

References to order

- > **C.A. 846** > P01156301Z
- > **C.A. 847** > P01156302Z
- > **C.A. 1244** > P01156310

Thermo-anemometers

C.A 822, C.A 1224 & C.A 1226

- > Simple to use
- > Dual display
- > Rotating-vane or hot-wire sensor depending on your application



Specifications

Air-speed sensor

Air-speed range

Air-speed accuracy

Temperature range

Temperature accuracy

Flow rate

Functions

Dimensions / weight

* from 3.1 m/s

■ C.A 822

Rotating vane

0.4 to 30 m/s

± 3% P.E.

-20°C to +60 °C

± 0.5 °C

-

Max, Hold, Min, Avg

173 x 60.5 x 38 mm / 330 g

■ C.A 1224

Rotating vane

0.25 to 35 m/s

± 3% R + 0.1 m/s
or ± 1% R + 0.2 m/s*

-20°C to +80°C

± 0.3% R + 0.25 °C

0 to 99,999 m³/h

Max, Hold, Min, Avg

147.7 x 70.6 x 34.7 mm / 190 g

■ C.A 1226

Hot wire

0.15 to 30 m/s

± 3% R + 0.05 m/s
or ± 1% R + 0.2 m/s*

-20°C to +80°C

± 0.3% R + 0.25 °C

0 to 99,999 m³/h

Max, Hold, Min, Avg

147.7 x 70.6 x 34.7 mm / 190 g



Accessories/Replacement parts

> For C.A 1224

C.A 825 flow measurement cones

Telescopic extension

> P01173105

> P01102012

> For C.A 1226

C.A 828 flow measurement cones

Straight extension

Elbowed extension

> P01173107

> P01102010

> P01102011

State at delivery

- > **C.A 822** delivered with 1 shockproof sheath, 1 rotating-vane sensor, 1 operating manual in 5 languages and 1 battery
- > **C.A 1224** delivered with 1 remote probe, 1 operating manual in 5 languages and 9 V battery
- > **C.A 1226** delivered with 1 remote probe, 1 operating manual in 5 languages and 9 V battery

References to order

> **C.A 822**

> **C.A 1224**

> **C.A 1226**

> P01173102

> P01173113

> P01173114

Multi-function instrument



C.A 1052

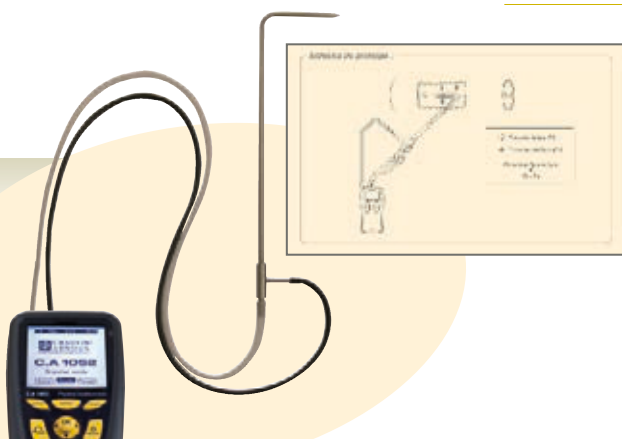
- > Can be used for comprehensive analysis of your air-conditioning, heating and ventilation installations.
- > Accurate 5-in-1 instrument: air-speed measurement, flow rate, relative humidity, pressure and temperature
- > Complete: the instrument is delivered as standard with its probes in a hard case
- > Very easy to use: simply connect the probe (recognized automatically) and start measuring!
- > Data storage

Specifications

Hot-wire speed
Ø 100 mm rotating-vane speed
Ambient temperature
Flow rate
Relative humidity
Dew point
Pressure
Temperature (two K thermocouple inputs))
Function
Recording
Dimensions / weight

C.A 1052

Measurement range	Accuracy
0.15 to 3 m/s	± 3 % R + 0.03 m/s
3.1 to 35 m/s	± 3 % R + 0.1 m/s
0.25 to 3 m/s	± 3 % R + 0.1 m/s
3.1 to 35 m/s	± 1 % R + 0.3 m/s
-20 °C to +80 °C	± 0.4 % R + 0.3 °C
0 to 99,999 m³/h	3 % R
3 to 98 % RH	± 1 % R + 1.5 % RH
-20 °C to +70 °C	± 0.8 % R + 0.6 °C
0 to 1,000 mm H ₂ O	± 0.2 % R + 1
-200 °C to +1300 °C	±0.4 % R or 1.1 °C
-100 °C to +750 °C	±0.4 % R or 0.8 °C
-200 °C to +400 °C	±0.4 % R or 0.5 °C
Hold, Min, Max, Avg	
8,000 counts	
161.9 x 80.8 x 57.4 mm / 380 g	



Accessories/Replacement parts

Straight extension
Elbowed extension
Telescopic extension
C.A 825 rotating-vane flow cone
C.A 828 hot-wire flow cone
Pitot tube
Hard case

> P01102010
> P01102011
> P01102012
> P01173105
> P01173107
> P01102048
> P01298072

State at delivery & reference

- > **C.A 1052** delivered in case with all its probes, 1 operating manual in 5 languages, 4 x 1.5 V batteries and PhysicsLog software
- > P01175020

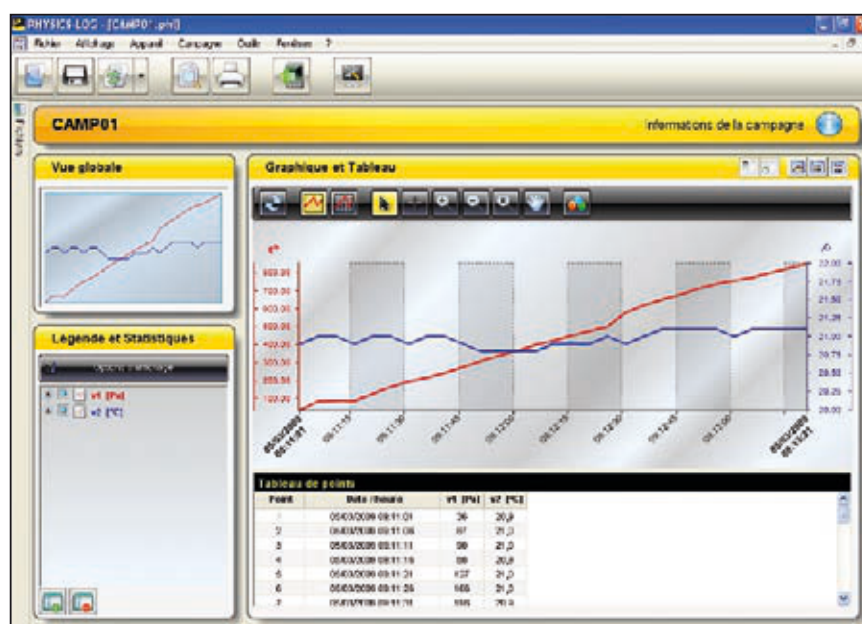


Physics-Log software

- > Recovery of the data from the C.A 1052: rotating-vane and hot-wire speed, flow rate, relative humidity, temperature, pressure
- > Downloaded campaigns labelled with operator and customer details
- > Customized report printing

Physics-Log software

- Choice of campaigns for download
- Campaigns labelled with operator and customer details
- C.A 1052 memory dump
- Display of curves corresponding to the data downloaded
- Customization of graphs
- Saving in PDF format for customer distribution



Manometers



C.A 850 & C.A 852

- > Accurate and simple to use
- > Time/date-stamped monitoring
- > Differential measurements

Specifications

Measurement range
Accuracy
Units
Functions
Dimensions / weight

C.A 850

C.A 852

-6.89 to +6.89 bar	-138 to +138 mbar
0.3 % full scale	
psi, bar, mbar, mmH ₂ O, inH ₂ O	
kbar, cmH ₂ O, FtH ₂ O, mmHg, OZin ² , kg/cm ²	-
Differential measurements, Min, Max, Hold	
182 x 72 x 30 mm / 220 g	

State at delivery

- > **C.A 850** delivered in carrying case with 2 connection pipes, 1 operating manual in 5 languages and battery
- > **C.A 852** delivered in carrying case with 2 connection pipes, 1 operating manual in 5 languages and battery

References to order

- > **C.A 850** > P01184101
- > **C.A 852** > P01184102



Lightmeters



C.A 811 & C.A 813

- > Check your lighting in compliance with the standards and in all directions
- > Measurement up to 20,000 or 200,000 lux depending on your requirements

Specifications

Measurement range

Accuracy

Incandescent lamp:

Other sources:

Correction

Functions

Dimensions

Weight

C.A 811

C.A 813

20 to 20,000 lux

20 to 200,000 lux

± 3 % + 10 counts

± 18 % + 2 counts

± 11 % + 2 counts

Spectral and incidence

Max, Hold

173 x 60.5 x 38 mm

214 g

223 g

State at delivery

- > **C.A 811** delivered with 1 shockproof protective sheath, 1 battery and 1 operating manual in 5 languages
- > **C.A 813** delivered with 1 shockproof protective sheath, 1 battery and 1 operating manual in 5 languages

References to order

- > **C.A 811** > P01172201Z
- > **C.A 813** > P01172401Z



Sound-level meters



C.A. 832

- > Testing of sound levels
- > Simple to use

C.A. 834

- > Monitoring of noise exposure levels: recording of up to 32,000 values!
- > Process the data on a PC using the standard software supplied

Specifications

Measurement range
Calibres

Accuracy

Frequency range

Functions

Analogue output

Memory

Software

Dimensions / weight

C.A. 832

35 to 130 dB

3 calibres:
35 to 80 dB
50 to 100 dB
80 to 130 dB

±2 dB

31.5 Hz to 8,000 Hz

A and C frequency weighting curves
Fast and slow time weighting

-

10 mV/dB or 1 Vrms

-

-

237 x 60.5 x 38 mm / 230 g

C.A. 834

30 to 130 dB

4 calibres:
30 to 80 dB
50 to 100 dB
80 to 130 dB
Auto 30 to 130 dB

±1.5 dB

Min, Hold

32,000 values

Yes

275 x 64 x 30 mm / 285 g

State at delivery

- > **C.A. 832** delivered with 1 shockproof sheath, 1 jack socket for analogue output and 1 universal adapter for fixing on tripod, 1 operating manual and 9 V battery
- > **C.A. 834** delivered in hard case with data processing software, 1 RS232 cable and 1 jack socket for analogue output, 1 operating manual and 9 V battery



References to order

- > **C.A. 832**
- > **C.A. 834**

- > P01185501Z
- > P01185502

Accessories/Replacement parts

- > **For C.A. 832 and C.A. 834**

C.A. 833, 94 dB or 114 dB sound-level meter calibrator
Microphone extension for C.A. 834
Wind shield

- > P01185301
- > P01102085
- > P01102083

CO detector

C.A 895

- > Measures the level of carbon monoxide present in a room
- > Checks the operation of combustion equipment
- > Warning buzzer to indicate when there is a risk

Specifications

Measurement range	0 to 1,000 ppm
Accuracy	± 5% + 5 ppm
Measurement mode	Normal or Avg
Functions	Alarm, Max, Hold
Dimensions / weight	237 x 60.5 x 38 mm / 190 g

C.A 832



Accessories / Replacement parts

Aspiration kit with pump and extension

> P01651101

State at delivery

- > **C.A 895** delivered with 1 shockproof protective sheath, 1 operating manual in 5 languages and 9 V battery

Reference to order

- > **C.A 895**

> P01651001Z

Tachometers



C.A 1725 & C.A 1727

- > Measurements up to 100,000 RPM
- > Measurement with or without contact
- > Large number of functions available: rotation speed, linear speed, counting, frequency, period
- > Possibility of programming and storage capacity on the C.A 1727
- > USB link for processing the recorded data on a PC with the C.A 1727

Specifications

		C.A 1725	C.A 1727
RPM function	Range	6 to 100,000 RPM	
	Accuracy	$10^{-4} R \pm 6$ counts	
m/min function	Range	0.6 to 60,000 m/min.	
	Accuracy	$10^{-4} R \pm 1$ pas	
Hz function	Range	0.1 to 10,000 Hz	
	Accuracy	$4 \times 10^{-5} R \pm 4$ counts	
ms function	Range	0.1 to 10,000 ms	
	Accuracy	$10^{-4} R \pm 5$ counts	
Duty cycle function	Range	10 to 10,000 %	
	Accuracy	0.1 % to 1 %	
Counting function	Range		0 to 99,999 events
	Accuracy		± 1 event
Functions		Min, Max, Hold, Smooth	
		High and low alarm	
Memory		4,000 counts	
Dimensions / weight		21 x 72 x 47 mm / 250 g	

State at delivery

- > **C.A 1725 tachometer** delivered in a hard case with FRB F connector, a 9 V battery, 1 set of 15 reflective strips (length 0.1 m), 1 operating manual on CD and 1 quick start-up guide on paper.
- > **C.A 1727 tachometer** delivered in a hard case with FRB F connector, a 9 V battery, 1 set of 15 reflective strips (length 0.1 m), 1 operating manual and the TACHOGRAPH software on CD and 1 quick start-up guide on paper.








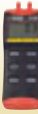

Accessories/Replacement parts








Mechanical accessories kit	> P01174902
End-fittings (set of 3)	> P01174903
Reflective tape (15 strips of 0.1 m)	> P01101797
FRB F socket	> P01101785
TACHOGRAPH software on CD	> P01174835
USB-A <-> USB-B lead	> P01295293

References to order

- > **C.A 1725 tachometer** > P01174810
- > **C.A 1727 tachometer** > P01174830

Selection guide for environmental measurement

									
	C.A 846	C.A 847	C.A 1244	C.A 822	C.A 1224	C.A 1226	C.A 850	C.A 852	C.A 1052
Temperature measurement									
Probe Pt 100	■		■	■	■	■			■
Probe K 2 inputs									■
Relative humidity measurement									
RH of air	■		■						■
Dew-point measurement			■						■
RH of materials		■							
Air speed measurement									
Rotating-vane sensor				■	■				■
Hot-wire sensor						■			■
Flow measurement					■	■			■
Air pressure measurement									
Differential pressure							■	■	■
High pressure (≥ 10 bar)							■		
Low pressure (≥ 100 mbar)								■	■
General functions									
Hold	■		■	■	■	■	■	■	■
Max	■		■	■	■	■	■	■	■
Min			■		■	■	■	■	■
Avg					■	■			■
Choice of units	■		■	■	■	■	■	■	■
Backlighting	■			■			■	■	■
Recording									■
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	C.A 811	C.A 813	C.A 832	C.A 834	C.A 895	C.A 1725	C.A 1727
Lighting measurement							
< 20,000 lux	■						
< 200,000 lux		■					
Spectral correction	■	■					
Incidence correction	■	■					
Noise measurement							
A and C frequency weighting			■	■			
Slow / fast time weighting			■	■			
Analogue output			■	■			
Detection gaz							
CO detection					■		
Speed measurement							
With and without contact						■	■
Rotating-vane speed						■	■
Linear speed						■	■
Frequency, period						■	■
Duty cycle						■	■
Counting							■
General functions							
Hold	■	■		■	■	■	■
Max	■	■	■	■	■	■	■
Min				■		■	■
Choice of units	■	■		■		■	■
Backlighting	■	■	■	■			
Buzzer					■		■
Recording				■			■
Software				■			■
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