2019

CHAUVIN ARNOUX GROUP

ENVIRONMENTAL
MEASUREMENTS

Measure up

About the
CHAUVIN ARNOUX GROUP

Founded in 1893 in Paris, France, **CHAUVIN ARNOUX,** has succeeded over the centuries in constantly developing its expertise in the design, manufacture and commercialization of measuring instruments for professionals.

From portable instrumentation to fixed electrical equipment and energy performance solutions, from control of the whole thermal process chain to industrial metrology, the **CHAUVIN ARNOUX Group's** offering covers every customer requirement, whatever the sector (contractors, industry, administration, etc.).

" *CHAUVIN ARNOUX is a major player in the measurement market in France and internationally.* "

Total control of product design and manufacturing

in-house enables the Group to innovate constantly and to propose a very broad product and service offering meeting all its customers' needs

A Few Figures

- 10 subsidiaries worldwide
- 900 employees
- 7 production sites
- 6 R&D departments worldwide
- 11 % of revenues invested in R&D
- Turnover of 100 million euros

Chauvin Arnoux, a team close to you and your partner for:

Energy performance

Regulatory testing

Environmental measurements

Supervision and ***sizing of installations***

www.chauvin-arnoux.com

CONTENTS

CA 1621

Ref.: P01654621

Temperature calibrator for thermocouple probes capable of measuring and simulating up to 8 types of thermocouple as well as a voltage in mV.

STATE AT DELIVERY ▶

Delivered with a soft case, 2 thermocouple adapters, 6 x AAA 1.5 V batteries and a user's manual in 5 languages

Input/output range	Resolution	Accuracy
-10 mV ... 100 mV	0.01 mV	± 0.025 % + 2 counts

Function	Range	Resolution	Accuracy	Reference junction error
Type J	-200 ... +1200 °C	0.1 °C	± (0.3 °C + 10 µV)	± 0.3 °C
Type K	-200 ... +1370 °C	0.1 °C	±(0.3 °C +10 µV)	± 0.3 °C
Type T	-200 ... +400 °C	0.1 °C	±(0.3 °C +10 µV)	± 0.3 °C
Type E	-200 ... +950 °C	0.1 °C	±(0.3 °C +10 µV)	± 0.3 °C
Type R	-20 ... +1750 °C	1 °C	±(1 °C +10 µV)	± 0.3 °C
Type S	-20 ... +1750 °C	1 °C	±(1 °C +10 µV)	± 0.3 °C
Type B	+600 ... +1800 °C	1 °C	±(1 °C +10 µV)	± 0.3 °C
Type N	-250 ... +1300 °C	0.1 °C	±(0.3 °C +10 µV)	± 0.3 °C

CA 1623

Ref.: P01654623

Temperature calibrator for resistive probes capable of measuring and simulating up to 7 types of resistive probes as well as a resistance.

STATE AT DELIVERY ▶

Supplied with a soft case, a pair of test cables, a pair of crocodile clips, 6 x AAA 1.5 V batteries and a user's manual in 5 languages

Accuracy in °C					
Mode	Range	4-wire input	2 / 3-wire input	Output	Admissible excitation in mA
Pt10 385	-200 ... +800 °C				0.1 ... 3.0
Pt50 385	-200 ... +800 °C	0.7	1.0	0.7	0.1 ... 3.0
Pt100 385	-200 ... +800 °C	0.33	0.5	0.33	0.1 ... 3.0
Pt200 385	-200 ... +250 °C +250 ... +630 °C	0.2 0.8	0.3 1.6	0.2 0.8	0.1 ... 3.0
Pt500 385	-200 ... +500 °C +500 ... +630 °C	0.3 0.4	0.6 0.9	0.3 0.4	0.06 ... 3.0
Pt1000 385	-200 ... +100 °C +100 ... +630 °C	0.2 0.2	0.4 0.5	0.2 0.2	0.1 ... 3.0
Pt100 JIS	+200 ... +630 °C	0.2	0.3	0.3	0.1 ... 3.0

CA 1631

Ref.: P01654402

Process signal calibrator used to measure or provide a current loop between 0 and 24 mA and a DC voltage between 0 and 20 V.

STATE AT DELIVERY ▶

Supplied with a soft case, a pair of test cables, a pair of crocodile clips, a pair of test probes, 6 x AAA 1.5 V batteries and a user's manual in 5 languages

Range	Resolution	Accuracy ± (% of reading + counts)
100 mV 20 V	0.01 mV 0.001 V	0.02 % + 3 0.02 % + 3
Input impedance: 2 MΩ (rated value), < 100 pF Protection against overvoltages: 30 V - Current delivered at 20 V: 1 mA		
Range 24 mA	Resolution 0.001 mA	Accuracy ± (% of reading + counts) 0.015 % + 3
Protection against overloads: 125 mA / 250 V quick-response fuse Display as percentage: 0 % = 4 mA, 100 % = 20 mA Source mode: 1,000 Ω load at 20 mA for a battery voltage ≥ 6.8 V, (700 Ω at 20 mA for a battery voltage between 5.8 and 6.8 V Simulation mode: external loop voltage condition: 24 V (rated value), 30 V maximum, 12 V minimum. Loop voltage power supply: 24 V ± 10 %		

ACCESSORIES / REPLACEMENT PARTS ▶

Mains power supply P01103057
MultiFix bag 120 x 245 x 60 mm P01298075
Set of 2 red/black crocodile clamps P01295457**Z**

Set of 2 red/black moulded PVC cables P01295451**Z**
Set of 2 x Ø 4 mm moulded test probes P01295451**Z**

Thermal cameras

CA 1950
Ref.: P01651901

CA 1954
Ref.: P01651904

	CA 1950	CA 1954
Detector	80 x 80	120 x 160
Sensitivity (N.E.T.D)	80 mK @ 30 °C (0.08 °C à 30 °C)	
Refresh rate	9 Hz	
Temperature range	-20 °C to +250 °C	
Accuracy	±2 °C or ±2 % of reading	
Field of view	20° x 20°	28° x 38°
IFOV (spatial resolution)	4.4 mrad	4.1 mrad
Focus	Fixed	
Real image	Yes	
Measurement tools	Automatic Min and Max detection on adjustable area 1 manual cursor + automatic detection + Min Max on adjustable area + temperature profile + isotherm	
Parameter settings	Emissivity, environmental temperature, distance, relative humidity	
Voice comments	Yes, via Bluetooth (earpiece supplied)	
Connectivity	F407, F607, MTX 3292 and MTX 3293 clamps	F407, F607, MTX 3292 and MTX 3293 clamps, environmental measurement products (CA 1821, CA 1822, CA 1823, CA 1246, CA 1227, etc.)
Data storage	On removable 2 GB micro-SD card (approx. 4,000 images) up a 32 GB	
Type	Rechargeable NiMH batteries with low self-discharge	
Battery life	13.5 hrs (typical)	9 hrs (typical)
Ingress protection	IP 54	
Fall resistance	2-metre drop	
Weight / dimensions	700 g with rechargeable batteries / 225 x 125 x 83	

IP 54 | **2 m ↓** | USB | Bluetooth | SD | **BMP** | **PNG**

STATE AT DELIVERY ▶

Cameras delivered in site-proof case with
4 NiMH batteries and 1 battery charger, 1 micro
SD HD card, 1 USB cable, 1 Bluetooth earpiece,
CAmReport software on CD-ROM, user's manuals
and a measurement report

CAmReport software

The CAmReport software is equipped with a very simple user interface for:
✓ Analysis of the thermograms using a large number of tools (cursors, thermal profiles, squares or circles
   or polygons fora area analyses).
**Results tables quickly and automatically display all the information/analytical tools on the
thermogram.**
✓ Recovery of the voice comments or related measurements
✓ Automatic merging of the thermal and real images recorded simultaneously
✓ Automatic report creation for export in .pdf or .docx format.
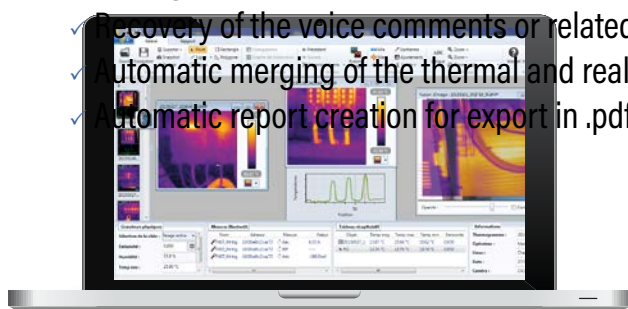
Thermal cameras

CA 1888
Ref.: P01651270

	CA 1888
Detector	384 x 288
Type	UFPA microbolometer, 8-14 microns
Sensitivity (NETD)	0.05 °C to 30 °C
Refresh rate	50 Hz (9 Hz outside EU)
Temperature	-20 °C to +600 °C as standard, up to 1,500 °C available as an option
Accuracy	±2 °C or ±2 %
Optics	Field of view: 24° x 18°, IFOV: 1.1 mrad Min. focal distance: 10 cm
"MixVision" mode	Merge function with adjustment of the IR image overlay in the real image from 0 to 100 %
Image size	640 x 480 pixels
Settings	Emissivity, environmental temperature, distance, humidity
Measurement tools	3 manual cursors + auto detection, Max/Min/Avg on area, isotherm, temperature differential, temperature profile
Data storage	1,000 radiometric images in 250 folders + 2 GB on mini-SD card
Power supply	Battery life: 3 hrs (continuous use) Recharging with external charger

IP 54 | 384 X 288 | CNPP APPROVAL
Attestation délivrée selon un essai unique
Disponible on www.cnpp.com
N° 2010-0020

STATE AT DELIVERY

Delivered in a hard case with a battery charger, 2 batteries, 1 x 2 GB SD card, 1 SD card reader, 1 video cable, RayCAm Report Standard software and a measurement report

The CA 1888 thermal camera is available in other configurations:
1,000 °C high-temperature option _____ P01651271
1,500 °C high-temperature option _____ P01651272
Bluetooth _____ P01651273
RayCAm Report software supplied for area analysis
(polygons or polylines) and study of temperature distribution on a histogram

ACCESSORIES / REPLACEMENT PARTS
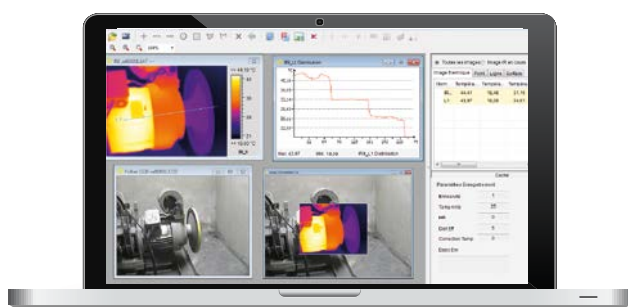
Sun shade _____ P01651531
Photo tripod adapter _____ P01651526
Lens cover _____ P01651522
Battery _____ P01296041
Battery charger _____ P01296043
Mains power supply _____ P01651527

RayCAm Report Standard software

The RayCAm Report Standard software can be used for direct analysis of the thermograms and for generating customized reports which can be exported in Word or PDF format.

✓ Creation of customized reports.

IR thermometers & contact thermometers

NEW

CA 1860
Ref.: P01651815

CA 1862
Ref.: P01651816

CA 1864
Ref.: P01651813

CA 1866
Ref.: P01651814

	CA 1871	CA 1860	CA 1862	CA 1864	CA 1866
Field of view	8/1	10/1	12/1	30/1	50/1
Emissivity	Fixed : 0.95		Adjustable from 0.1 to 1.0	0.1 to 1	
Mesurement range	-30 °C to + 550 °C	-35 °C to +450 °C (-31 °F to +842 °F)	-35 °C to +650 °C (-31 °F to +1202 °F)	- 50 °C to +1000 °C	
Resolution	Output 1 mV/°C	0.1 °C (0.1 °F)		0.1 °C	
Accuracy*	± 2 %	± 1.8 °C or ± 1.8 % of reading (take the higher value)		± 2 % ± 2 °C	
Functions	-	Instantaneous mode, MAX, MIN, AVG, differential (DIF), continuous measurement by blocking measurement trigger, alarms		Min, Max, Avg, Hold, Alarms, Diff	
Laser sight	Yes		Dual laser	Yes	
Dimensions / weight	164 x 50 x 40 mm 182 g	189 mm x 118 mm x 55 mm / 292 g		230 x 100 x 56 mm / 290 g	

* Depending on temperature range. See user's manual for further details.

STATE AT DELIVERY ▶

Products delivered with batteries, user's manual and carrying bag

CA 1871
Ref.: P01651610Z

CA 876
Ref.: P01651403Z

	CA 876	
	IR measurement	Contact measurement
Field of view	10/1	-
Emissivity	0.1 to 1	-
Measurement range	-20 °C to +550 °C	-40 °C to +1350 °C
Resolution	± 2 % R or ± 3 °C	± 0.1 % R +1 °C
Accuracy*	Max., Min., Avg., HOLD, Alarms	
Dimensions / weight	173 x 60.5 x 38 mm / 255 g	

STATE AT DELIVERY ▶

Product delivered with battery, user's manual and protective sheath

TK2002
Ref.: P01653110

	TK 2000	TK 2002
No. of inputs	1	2
Range	- 50 °C to +1000 °C	
Accuracy	± 1.5 % + 0.5 °C	
Functions	HOLD, °C	
Dimensions	163 x 63 x 37.5 mm	
Weight	200 g	

STATE AT DELIVERY ▶

Product delivered with battery, user's manual and protective sheath

TK2000
Ref.: P01653100

IR & contact thermometers

CA 1821
Ref.: P01654821

CA 1822
Ref.: P01654822

CA 1823
Ref.: P01654823

	CA 1821	CA 1822	CA 1823
Sensor	J, K, T, N, E, R or S thermocouple		Pt100, Pt1000
No. of inputs	1	2	1
Range	-250 °C to 1767 °C		-100 °C to 400 °C
Resolution	θ < 1,000 °C: 0.1 °C and $\theta \geq$ 1,000 °C: 1 °C		0.1 °C
Accuracy	± (0.1 % R + 0.6 °C)	± (0.4 % R +0.3 °C)	± (0.4 % R +0.3 °C)
Functions	Min., Max., HOLD, Alarms		
Recording	Manual start and stop on the product Programmed recording		
Alarms	Visual alert if a threshold is overrun configurable via Data Logger Transfer Possibility of triggering recording on alarm threshold		
Battery life	1,000 hrs (portable mode) / 3 years for recording (measurement interval: 15 minutes)		
Ingress protection	IP54 casing		
Mounting	Casing equipped with a magnet, a wall-mount system and a slot for suspending the product. Compatible with the Multifix accessory.		
Connections	CA 1821 and 1822: miniature female compensated CA 1823: 3-point flat connector		
Dimensions/weight	150 x 72 x 32 mm / 260 g with batteries		

STATE AT DELIVERY

Products delivered with carrying bag, batteries, 1 USB cable, measurement report and quick start-up guide(Complete Data Logger Transfer user's manual and software available from the Chauvin Arnoux website)

ACCESSORIES / REPLACEMENT PARTS

Handle for CK extension	P03652912	Carrying bag	P01298075
Connector for K thermocouple	P03652925	Metal case	P01298071
Shockproof sheath + Multifix	P01654252	Dataview software	P01102095
Multifix	P01102100Z	*BLE / USB* Bluetooth modem *for PC*	P01654253
Mains adapter	P01651023	4 x NiMH AA/LR6 batteries + *Charger*	HX0053

CA Environmental Loggers

Data Logger Transfer, the software for analysing your data

Bluetooth®

USB UNIVERSAL SERIAL BUS

Configuration of the instruments connected
Programming of recordings and alarms
Capture and display of the data in real time
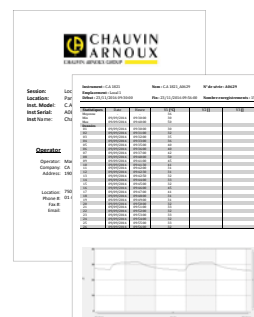
Automatic report creation

Exportable in Word format
This makes it easier to print and archive them.

Temperature sensors

K thermocouple sensors

Models	Description	Measurement range	Tolerance class	63 % response time	Plunger diameter	Plunger length
SK1 / P03652901	Needle sensor for penetration with stainless-steel sheath	-50 °C to 800 °C	Class 2	1 second	3 mm	15 cm
SK2 / P03652902	Bendable general-purpose sensor with stainless-steel sheath	-50 °C to 1000 °C	Class 2	2 seconds	2 mm	1 m
SK3 / P03652903	Semi-rigid general-purpose sensor with stainless-steel sheath	-50 °C to 1000 °C	Class 2	6 seconds	4 mm	50 cm
SK4 / P03652904	Surface sensor Sheathed with stainless-steel sensing element and Teflon base	0 °C to 250 °C	Class 2	1 second	5 mm	15 cm
SK5 / P03652905	Surface sensor with spring	-50 °C to 500 °C	Class 2	1 second	5 mm, diameter in contact 8.5 mm	15 cm
SK6 / P03652906	Flexible sensor not suitable for liquids	-50 °C to 285°C	Class 2	1 second in contact 3 s ambient	1 mm	1 m
SK7 / P03652907	Air sensor for ambient measurement	-50 °C to 250 °C	Class 2	5 seconds	5 mm	15 cm
SK8 / P03652908	Pipe sensor	-50 °C to 140 °C	Class 2	10 s on Ø 12 mm stainless-steel pipe	90 mm	32 cm
SK11 / P03652917	Needle sensor for penetration with handle Stainless -steel sheath	50 °C to 600 °C	Class 2	12 seconds	3 mm	13 cm
SK13 / P03652918	General-purpose sensor with stainless-steel sheath	-50 °C to 1100 °C	Class 2	12 seconds	3 mm	30 cm
SK14 / P03652919	Elbowed surface sensor	-50 °C to 450 °C	Class 2	8 seconds	6 mm	13 cm
SK15 / P03652920	Surface sensor with spring and handle	-50 °C to 900 °C	Class 2	2 seconds	8 mm	13 cm
SK17 / P03652921	Air sensor for ambient measurement with handle and spiral cable	-50 °C to 600 °C	Class 2	5 seconds	6 mm	13 cm
SK19 / P03652922	Magnetic sensor with magnet for flat metal surfaces	-50 °C to 200 °C	Class 2	7 seconds	4 mm	1 m
SK20 / P01655010	General-purpose flexible sensor	-40 °C to 450 °C	Class 1	1 second	1.5 mm	1 m

Accuracy Class I / -40 °C to +375 °C: ± 1.5 °C / +375 °C to +1000 °C: ± 0.004 x T °C.
Accuracy Class II / -40 °C to +333 °C: ± 2.5 °C / +333 °C to +1200 °C: ± 0.0075 x T °C.

Extensions for thermocouples

	Description	Ø	Length
CK 1	Terminated by male plug / female plug	4 mm	1 m
CK 2	Terminated by male plug / 2 bare wires	4 mm	1 m
CK 3	Terminated by 5-pin DIN plug / female socket	4 mm	1 m
CK 4	Terminated by 2 banana plugs / female socket	4 mm	1 m

Temperature withstand of extensions: -40 °C to +100 °C

Pt 100 Ω temperature sensors

	Description	Measurement range	Tolerance class	63 % response time	Plunger diameter	Plunger length
SP14 P01655020	General-purpose sensor with stainless-steel sheath	-100 °C to 450 °C	Class A	7 seconds	3 mm	20 cm
SP10 P03652712	Surface sensor with spring ressort	-50 °C to 200 °C	Class B	6 seconds	5 mm	13 cm
SP11 P03652713	Stainless-steel needle sensor for penetration	-100 °C to 600 °C	Class B	7 seconds	3 mm	13 cm
SP12 P03652714	Air sensor	-100 °C to 600 °C	Class B	5 seconds	5 mm	13 cm
SP13 P03652715	Stainless-steel sensor for immersion	-100 °C to 600 °C	Class B	7 seconds	3 mm	13 cm

Accuracy Class A / 0.15 °C + 0.002 x T °C - Accuracy Class B / 0.3 °C + 0.005 x T °C
Miniature flat-pin connector, 3 poles · Spiral cable: 45 cm to 1 m

Thermo-hygrometers

CA 1246
Ref.: P01654246

	CA 1246
Relative Humidity range	3.0 to 98.0 % RH
Relative Humidity accuracy	10 to 90 %RH: ± (2 % RH ± 1 ct) outside that range: ± (4 % RH ± 1 ct)
Temperature range	- 10.0 to +60.0 °C
Temperature accuracy	10 to 40 °C: ± (0.5 °C ± 1 ct) outside that range: ± (0.032 x (T-25) ± 1 ct) / T= temperature in °C
Dew point range and accuracy	Dew point: - 20.0 to +60.0 °Ctd Accuracy: 1.5 °C
Functions	Min., Max., HOLD, Alarms
Recording	Manual start and stop on the product Programmed recording
Alarms	Visual alert on threshold overrun configurable via Data Logger Transfer - Possibility of triggering recording on alarm threshold
Battery life	1,000 hrs (portable mode) / 3 years for recording (measurement interval: 15 minutes)
Ingress protection	IP54
Mounting	Casing equipped with a magnet, a wall-mount system and a slot for suspending the product. Compatible with the Multifix accessory.
Dimensions / weight	187 x 72 x 32 mm /260 g

STATE AT DELIVERY

Product delivered with carrying bag, batteries, 1 USB cable, measurement report and a quick start-up guide (complete user's manual and Data Logger Transfer software available from the Chauvin Arnoux website).

Data Logger Transfer
Automatic report generation

ACCESSORIES / REPLACEMENT PARTS

75 % RH salt cartridge	P01156401
33 % RH salt cartridge	P01156402
Shockproof sheath + Multifix	P01654252
Multifix	P01102100Z
Mains adapter	P01651023
Bag	P01298075
Metal case	P01298071
Dataview software	P01102095
Bluetooth BLE / USB modem for PC	P01654253
4 x AA/LR6 NIMH batteries + charger	HX0053

CA Environmental Loggers

CA 847
Ref.: P01156302Z

STATE AT DELIVERY

Product delivered with battery, user's manual and protective sheath

	CA 847
RH range	6 to 100 % RH
RH accuracy	± 1 LED
Dimensions	173 x 60.5 x 38 mm
Weight	160 g

Luxmeters

CA 1110
Ref.: P01654110

CA Environmental Loggers

	CA 1110
Measurement range	0.1 to 200,000 lx - 0.01 to 18,580 fc
Accuracy in standard mode	
Incandescent lamp	± 3 % of reading
LED	± 6 % of reading (3,000 K and 6,000 K)
Fluorescent lamps	± 9 % of reading
Accuracy in compensation mode	
LED mode	± 4 % of reading (at 4,000 K)
Fluo mode	± 4 % of reading (type F11, 4,000 K)
Functions	Min., Max., HOLD, Average
Recording	Manual start and stop on the product Programmed recording
MAP mode	The MAP function can be used to map the lighting on a surface or in a room. In this way, the measurements are saved in the same file.
Data storage	More than 1 million points
Power supply	- Alkaline batteries: 3 x 1.5 V LR6 or rechargeable NiMH battery - Mains connection via the mains / micro USB connector (option)
Battery life	500 hrs (portable mode) / 3 years for recording (measurement interval: 15 minutes)
Dimensions	Casing: 150 x 72 x 32 mm - Sensor: 67 x 64 x 35 mm (with protective cover) Spiral cable: 24 to 120 cm
Weight	345 g with batteries
Ingress protection	IP50 casing
Operating temperature / humidity	-10 to +60 ℃ - 10 to 90 % RH
Standards	Class C as per the French NF C 42-710 standard based on the CIE guidelines

STATE AT DELIVERY

Product delivered with carrying bag, batteries, 1 USB cable, 1 measurement report and quick start-up guide (complete user's manual and Data Logger Transfer software available from the Chauvin Arnoux website).

ACCESSORIES / REPLACEMENT PARTS

Shockproof sheath + Multifix P01654252
Multifix P01102100Z
Mains adapter P01651023
Bag P01298075
Metal case P01298071
Dataview software P01102095
Bluetooth BLE / USB modem for PC P01654253
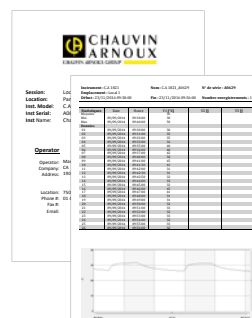4 x AA/LR6 NiMH batteries + charger HX0053

Data Logger Transfer, the software for analysing your data

Configuration of the instruments connec**ted**
Programming of recordings and alarms
Capture and display of the **d**ata in real time

Automatic report creation

Exportable in Word format

This makes it easier to print and archive them.

Gas measurement

CA 1510

Ref.: P01651011

Ref.: P01651010 - Black

CA 1510

	CA 1510		
	CO2	Temperature	Humidity
Measurement range	0 to 5,000 ppm	-10 °C to +60 °C	5 to 95 % RH
Accuracy	± 50 ppm ±3 % R	±0.5 °C	± 2 % RH
Resolution	1 ppm	0.1 ° C	0.1 % RH
Recording interval	Customizable from 1 minute to 2 hours		
Data storage	More than 1 million points		
Buzzer and units	Yes / °C or °F		
Backlighting / Hold /Min Max	Yes		
Dimensions / weight	125 x 65.5 x 32 mm / 190 g with batteries		
Power supply	Batteries: 2 x 1.5 V LR6 or rechargeable battery Possibility of mains connection with mains / micro USB adapter supplied as standard		
Interfaces	2 possible communication modes: Bluetooth wireless link and USB link; the product is then recognized as a USB key for easy file transfer		
Mounting	CA 1510 casing equipped with a magnet, a wall-mount system and a slot for suspending the product. A wall-mount with anti-theft protection (padlock not supplied) is available as an accessory. A desktop stand is also available (supplied as standard with the CA 1510W)		

STATE AT DELIVERY

Product delivered in a cardboard box with batteries, USB mains adapter, 1 USB-micro USB cable, desktop stand, start-up guide, CD-ROM containing user's manual and data processing software.

*Available in a black version delivered in a metal case

ACCESSORIES / REPLACEMENT PARTS

(1) In-situ calibration kit P01651022
Hard case P01298071
Desktop stand P01651021
(2) White wall-mount.. P01651020
USB mains adapter P01651023
USB-Bluetooth adapter P01102112
Black wall-mount P01651024

CA 895

Carbon monoxide
Ref: P01651001Z

	CA 895
Measurement range	0 to 1,000 ppm
Accuracy	± 5 % + 5 ppm
Measurement mode	Normal or Avg.
Functions	Alarm, Max., HOLD
Dimensions	237 x 60.5 x 38 mm
Weight	190 g

STATE AT DELIVERY

Product delivered with 9 V LR14 battery and shockproof protective sheath
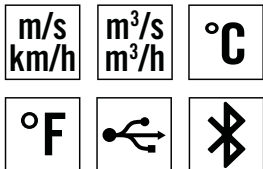
ACCESSORIES / REPLACEMENT PARTS

Aspiration kit with pump and extension P01651101

Thermo-anemometers

CA 1227

Ref.: P01654227

	CA 1227
Air speed/flow-rate sensor	Vane with optical detection
Air speed range	0.50 m/s to 27.0 m/s (98.0 to 5,314 fpm)
Air speed accuracy	± 3 % R ± 0.1 m/s
Air flow-rate range	0 to 2,999 m3/h
Air flow-rate accuracy	± 8 % R
Temperature range °C/°F	- 20 to +50 °C / -4 to +122 °F
Temperature accuracy °C	0 to 50 °C: ± 0.8 °C -20 to 0 °C: ± 1.6 °C
Functions	Min., Max., HOLD, Average
Recording	Manual start and stop on the product - Programmed recording
Data storage	More than 1 million points
Power supply	- Alkaline batteries: 3 x 1.5 V LR6 or rechargeable NiMH battery - Mains connection via the mains / micro USB adapter (option)
Battery life	200 hrs (portable mode) / 8 days for recording (measurement interval: 15 minutes)
Dimensions	Casing: 150 x 72 x 32 mm - Sensor: 160 x 80 x 38 mm Spiral cable: 24 to 120 cm
Weight	approx. 400 g
Ingress protection	IP40 casing
Operating temperature / humidity	-10 to +60 ° C - 10 to 90 % RH

m/s km/h m3/s m3/h °C °F

CA Environmental Loggers
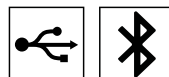
STATE AT DELIVERY

Product delivered with carrying bag, 3 x 1.5 V AA alkaline batteries, USB cable, 1 measurement report and quick start-up guide (complete user's manual and Data Logger Transfer software available from the Chauvin Arnoux website)

1

ACCESSORIES / REPLACEMENT PARTS

(1) Cones kit for flow-rate measurement with meter (circular cross-section Ø 210 mm and rectangular cross-section 346 x 346 mm) P01654250
Vane sensor Ø 80 mm P01654251
Shockproof sheath + Multifix P01654252
Multifix P01102100Z

Mains adapter P01651023
Carrying bag P01298075
Metal case P01298071
Dataview software P01102095
Bluetooth BLE / USB modem for PC P01654253
4 x AA/LR6 NIMH batteries + charger ...HX0053

Data Logger Transfer, the software for analysing your data

Bluetooth

USB
UNIVERSAL SERIAL BUS

**Configuration of the instruments connected
Programming of recording and alarms
Data capture and display in real time**
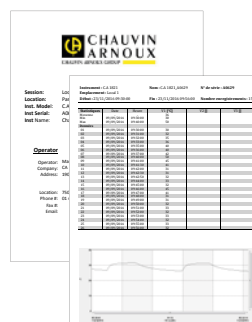
Automatic report generation

Exportable in Word format
This simplifies printing and archiving

Sound-level meters and manometers

CA 832
Ref.: P01185501Z

CA 834
Ref.: P01185502

	CA 832	CA 834
Measurement range	37 to 130 dB	30 to 130 dB
Accuracy	±2 dB	±1,5 dB
Functions	A and C frequency weighting curves Fast and slow time weighting	A and C frequency weighting curves Fast and slow time weighting
Analogue output	10 mV/dB or 1 Vrms	10 mV/dB or 1 Vrms
Data storage	-	32,000 values
Software	-	Yes
Dimensions	237 x 60.5 x 38 mm	275 x 64 x 30 mm
Weight	230 g	285 g

STATE AT DELIVERY

CA 832 - Delivered with a shockproof sheath, jack socket for analogue output, universal adapter for tripod mounting, manuals and batteries

CA 834 - Delivered in a hard case with software, Jack/USB cable, jack socket for analogue output, manuals and batteries

ACCESSORIES / REPLACEMENT PARTS

Sound-level meter calibrator
at 94 dB or 114 dB, CA 833 .... P01185301
Microphone extension for
CA 834 (5 metres) P01102085
Wind guard P01102083
Jack/USB cable for CA 834 .... P01295478

Manometers

CA 852
Ref.: P01184101

CA 850
Ref.: P01184102

	CA 850	CA 852
Measurement range	−6.89 to +6.89 bar	−138 to +138 mbar
Accuracy	0.3 % full scale	0.3 % full scale
Units	psi, bar, mbar, mmH_2O, inH_2O, kbar, cmH_2O, FtH_2O, mmHg, $OZin^2$, kg/cm^2	psi, bar, mbar, mmH_2O, inH_2O
Functions	Differential meas., Min., Max., HOLD	
Dimensions	182 x 72 x 30 mm	
Weight	220 g	

STATE AT DELIVERY

CA 850 - delivered in a hard case with 2 connection tubes, 1 user's manual in 5 languages and battery

CA 852 - delivered in a hard case with 2 connection tubes, 1 user's manual in 5 languages and battery

Tachometers

CA 1727
Ref.: P01174830

CA 1725
Ref.: P01174810

	CA 1725	CA 1727
RPM function		
Range	60 to 100,000 RPM	
Accuracy	10^{-4} Reading ± 6 cts	
m/min function		
Range	60 to 10,000 m/min.	
Accuracy	10^{-4} Reading ± 1 increment	
Hz function		
Range	1 to 10,000 Hz	
Accuracy	4×10^{-5} Reading ± 4 cts	
ms function		
Range	0.1 to 1,000 ms	
Accuracy	10^{-4} Reading ± 5 cts	
Ratio function		
Range	0.1 to 100 %	
Accuracy	0.1 % to 1 %	
Counting function		
Range	-	0 to 100,000 events
Accuracy	-	± 1 event
Functions	Min., Max., HOLD, Smoothing	
	-	High and low alarm
Data storage	-	4,000 points
Dimensions	21 x 72 x 47 mm	
Weight	250 g	

STATE AT DELIVERY

Delivered in hard case with 1 FRB F connector, 1 x 9 V LR14 battery, 1 set of 15 reflective strips (length: 0.1 m), 1 CD-ROM containing the user's manual

ACCESSORIES / REPLACEMENT PARTS

(1) Mechanical accessories kit P01174902
End-fittings (set of 3) P01174903
Reflective tape (15 x 0.1 m strips) P01101797
FRB F socket P01101785
USB mains adapter P01651023
TACHOGRAPH software on CD-ROM P01174835
USB-A-to-USB-B cable P01295293

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Fieldmeters

CA 40
Ref.: P01167501

CA 41
Ref.: P01167001B

CA 43
Ref.: P01167002A

	CA 40	CA 41	CA 43
Measurement	Magnetic field	Electric field	
Dynamic range	Up to 2 mT	0.1 V/m to 200 V/m	
Frequency range	30 to 300 Hz	100 kHz to 2.5 GHz	
Accuracy	±(5 % +3 cts) on the 200 µT range	0.7 V/m to 2 dB depending on range	
Sensor	One-way	Isotropic	
Data storage	No	No	Yes
Dimensions / weight	163 x 68 x 24 mm / 285 g	216 x 72 x 37 mm / 350 g	

STATE AT DELIVERY

CA 40.... P01167501 delivered with battery and sensor
CA 41.. P01167001B delivered in hard case with sensor, batteries and user's manuals
CA 43 P01167002A delivered in hard case with batteries, sensor, optical fibre, 1 PC adapter, 1 CD-ROM containing data processing software for the CA 43

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