

2018

avrorra-arm.ru
+7 (495) 956-62-18

 **CHAUVIN[®]
ARNOUX**
CHAUVIN ARNOUX GROUP



ENVIRONMENTAL MEASUREMENTS



www.chauvin-arnoux.com

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.”

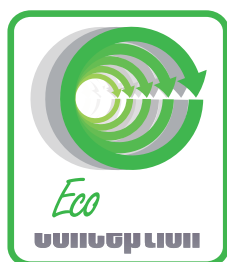


Total control of product design and manufacturing

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*

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Temperature & process signal calibrators



C.A 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



C.A 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



C.A 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

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

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	0.2	0.3	0.2	0.1 ... 3.0
	+250 ... +630 °C	0.8	1.6	0.8	
Pt500 385	-200 ... +500 °C	0.3	0.6	0.3	0.06 ... 3.0
	+500 ... +630 °C	0.4	0.9	0.4	
Pt1000 385	-200 ... +100 °C	0.2	0.4	0.2	0.1 ... 3.0
	+100 ... +630 °C	0.2	0.5	0.2	
Pt100 JIS	+200 ... +630 °C	0.2	0.3	0.3	0.1 ... 3.0

Range	Resolution	Accuracy ± (% of reading + counts)
100 mV	0.01 mV	0.02 % + 3
20 V	0.001 V	0.02 % + 3
Input impedance: 2 MΩ (rated value), < 100 pF Protection against overvoltages: 30 V - Current delivered at 20 V: 1 mA		
Range	Resolution	Accuracy ± (% of reading + counts)
24 mA	0.001 mA	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 120x245x60 mm	P01298075
Set of 2 red/black crocodile clamps	P01295457Z



Set of 2 red/black moulded PVC cables	P01295451Z
Set of 2 x Ø 4 mm moulded test probes	P01295451Z

Thermal cameras

C.A 1950

Ref.: P01651901

C.A 1954

Ref.: P01651904



	C.A 1950	C.A 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 a +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	



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 para:

- ✓ Analysis of the thermograms using a large number of tools (cursors, thermal profiles, squares or circles or polygons para area analyses).



Results tables quickly and automatically display all the inparamation/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 para export in .pdf or .docx paramat.

Thermal cameras



C.A 1886

Ref.: P01651260

IP
54

160
x
120



C.A 1888

Ref.: P01651270

IP
54

384
x
288



	C.A 1886	C.A 1888
Detector	160 x 120	384 x 288
Type	UFPA microbolometer, 8-14 microns	UFPA microbolometer, 8-14 microns
Sensitivity (NETD)	0.08 °C to 30 °C	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	-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: 20° x 15°, IFOV: 2.2 mrad Min. focal distance: 10 cm	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 %	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	Emissivity, environmental temperature, distance, humidity
Measurement tools	3 manual cursors + auto detection, Max/Min/Avg on area, isotherm, temperature differential, temperature profile	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	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	Battery life: 3 hrs (continuous use) Recharging with external charger

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 C.A 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

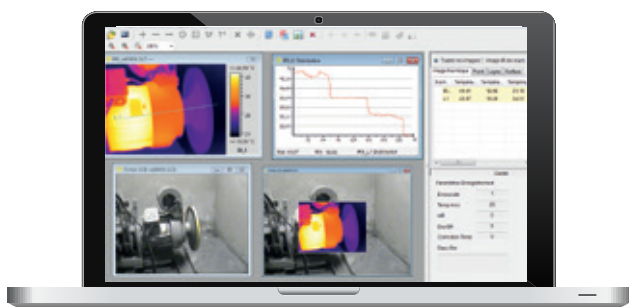
Lens cover _____ P01651522

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



C.A 871

Ref.: P01651302Z

C.A 879

Ref.: P01651805Z

C.A 1864

Ref.: P01651813

C.A 1866

Ref.: P01651814

	C.A 1871	C.A 871	C.A 879	C.A 1864	C.A 1866
Field of view	8/1	8/1	12/1	30/1	50/1
Emissivity	Fixed: 0.95			0.1 to 1	
Measurement range	-30°C to 550°C	-40°C to +538°C	-50°C to +550°C	-50°C to +1000°C	
Resolution	Output 1mV/°C	0,1°C up to 100°C 1°C for > 100°C		0,1°C	
Accuracy*	±2%	±2.5% ±2°C	±1.5% ±2°C	±2%±2°C	
Functions	-	Hold continuous measurement		Min, Max, Avg, Hold, Alarms, Diff	
Laser sight	Yes				
Dimensions / weight	164 x 50 x 40 mm 182 g	160 x 82 x 41 mm 180 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



C.A 1871

Ref.: P01651610Z



C.A 876

Ref.: P01651403Z

	C.A 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

C.A 1821

Ref.: P01654821

C.A 1822

Ref.: P01654822

C.A 1823

Ref.: P01654823



CA Environmental Loggers

	C.A 1821	C.A 1822	C.A 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 θ ≥ 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	C.A 1821 and 1822: miniature female compensated C.A 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	4x NiMH AA/LR6 batteries	HX0053 + Charger

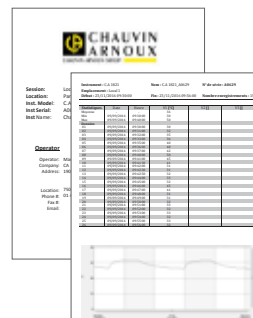
Data Logger Transfer, the software for analysing your data



Bluetooth®



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 12mm 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	SP14 P01655020
CK 2	Terminated by male plug / 2 bare wires	4 mm	1 m	SP10 P03652712
CK 3	Terminated by 5-pin DIN plug / female socket	4 mm	1 m	SP11 P03652713
				SP12 P03652714
CK 4	Terminated by 2 banana plugs / female socket	4 mm	1 m	SP13 P03652715

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
General-purpose sensor with stainless-steel sheath	-100°C to 450 °C	Class A	7 seconds	3 mm	20 cm
Surface sensor with spring resort	-50°C to 200°C	Class B	6 seconds	5 mm	13 cm
Stainless-steel needle sensor for penetration	-100°C to 600°C	Class B	7 seconds	3 mm	13 cm
Air sensor	-100°C to 600°C	Class B	5 seconds	5 mm	13 cm
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

C.A 1246

Ref.: P01654246



CA Environmental Loggers

C.A 1246	
Relative Humidity range	3.0 to 98.0 % RH
Relative Humidity accuracy	10 to 90 %RH: $\pm (2 \%RH \pm 1 \text{ ct})$ outside that range: $\pm (4 \%RH \pm 1 \text{ ct})$
Temperature range	- 10.0 to +60.0°C
Temperature accuracy	10 to 40°C: $\pm (0.5^\circ\text{C} \pm 1 \text{ ct})$ outside that range: $\pm (0.032 \times (T-25) \pm 1 \text{ ct})$ / 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	187x72x32mm / 260g

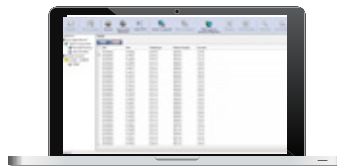
IP 54



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

C.A 847

Ref.: P01156302Z



STATE AT DELIVERY

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

C.A 847	
RH range	6 to 100% RH
RH accuracy	$\pm 1 \text{ LED}$
Dimensions	173 x 60.5 x 38 mm
Weight	160 g

Luxmeters

C.A 1110

Ref.: P01654110



CA Environmental Loggers

C.A 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 1.5V 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 °C - 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

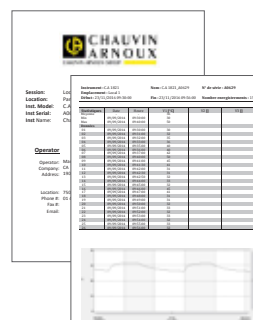
Data Logger Transfer, the software for analysing your data



Bluetooth®



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.

Gas measurement

C.A 1510

Ref.: P01651011

Ref.: P01651010 - Black



CA 1510

	C.A 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 1.5V 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	C.A 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



C.A 895

Carbon monoxide

Ref: P01651001Z



	C.A 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

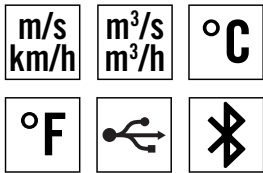
ACCESSORIES / REPLACEMENT PARTS

Aspiration kit with pump and extension P01651101

Thermo-anemometers

C.A 1227

Ref.: P01654227



CA Environmental Loggers



C.A 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 1.5V 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



STATE AT DELIVERY

Product delivered with carrying bag, 3 x 1.5V 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)



ACCESSORIES / REPLACEMENT PARTS

(1) Cones kit for flow-rate measurement with meter (circular cross-section Ø 210mm and rectangular cross-section 346x346mm)	P01654250	Mains adapter	P01651023
Vane sensor Ø80mm	P01654251	Carrying bag	P01298075
Shockproof sheath + Multifix	P01654252	Metal case	P01298071
Multifix	P01102100Z	Dataview software	P01102095
		Bluetooth BLE / USB modem for PC	P01654253
		4 x AA/LR6 NIMH batteries + charger	HX0053

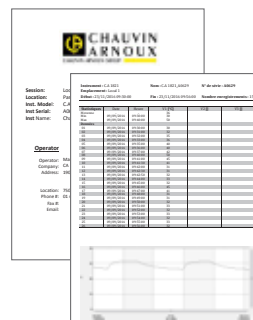
Data Logger Transfer, the software for analysing your data



Bluetooth®



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

C.A 832

Ref.: P01185501Z



C.A 834

Ref.: P01185502



	C.A 832	C.A 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

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

C.A 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, C.A 833	P01185301
Microphone extension for C.A 834 (5 metres)	P01102085
Wind guard	P01102083
Jack/USB cable for C.A 834	P01295478

Manometers

C.A 852

Ref.: P01184101



C.A 850

Ref.: P01184102



	C.A 850	C.A 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, mmH2O, inH2O, kbar, cmH2O, FtH2O, mmHg, OZin2, kg/cm2	psi, bar, mbar, mmH2O, inH2O
Functions	Differential meas., Min., Max, HOLD	
Dimensions	182 x 72 x 30 mm	
Weight	220 g	

STATE AT DELIVERY

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

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



Tachometers

C.A 1727

Ref.: P01174830



C.A 1725

Ref.: P01174810

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 x 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

Data storage High and low alarm

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



Fieldmeters

C.A 40

Ref.: P01167501

C.A 41

Ref.: P01167001B

C.A 43

Ref.: P01167002A



	C.A 40	C.A 41	C.A 43
Measurement	Magnetic field	Electric field	
Dynamic range	Up to 2 mT	0.1 V/m to 200V/m	
Frequency range	30 to 300 Hz	100 kHz to 2.5 GHz	
Accuracy	±(5 %+3 cts) on the 200µT 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

C.A 40... P01167501 delivered with battery and sensor

C.A 41... P01167001B delivered in hard case with sensor, batteries and user's manuals

C.A 43 P01167002A delivered in hard case with batteries, sensor, optical fibre, 1 PC adapter, 1 CD-ROM containing data processing software for the C.A 43