



C.A 1821 / C.A 1822 / C.A 1823

Logger contact thermometers



Versatility and high performance for temperature measurements

J, K, T, N, E, R and S thermocouples (C.A 1821 & C.A 1822)

Pt100 and Pt1000 resistance probes (C.A 1823)

Compact and magnetized for fixed or portable use

Recording of up to 1 million points

Alarms and recording triggered on alarms

Battery life of up to 3 years



Application Android
CA Environmental
Loggers



Measure up



Logger contact thermometers



Ingress protection: IP54 casing

Standard "compensated miniature female" connectors (C.A 1821 and C.A 1822)

Wide backlit display

Multifix-compatible magnetized product

**Very simple portable use
1 key = 1 function!**

Shockproof sheath available as an accessory

**USB and Bluetooth communication
for data transfers and configuration of recording**

**Long battery life:
up to 1,000 hrs (portable mode)
3 years for recording (15-minute measurement interval)**

ALARM: alarm thresholds can be set using the software
Visual alert on the product in the event of overruns
Recording can be triggered on alarm thresholds

CHAUVIN ARNOUX
C.A 1822
THERMOCOUPLE
THERMOMETER

T2 786.2°C
T1 135.7°C
K

MEM REC TYPE HOLD
MAX MIN

USB
UNIVERSAL SERIAL BUS

Bluetooth®

C.A 1821



C.A 1822



C.A 1823



	Thermocouple thermometer	Thermocouple thermometer	Resistance thermometer
	J, K, T, N, E, R, S 1 channel	J, K, T, N, E, R, S 2 channels	Pt100, Pt1000 1 channel
Measurement range	J - 210 to + 1,200 °C -346 to + 2,192 °F K - 200 to + 1,372 °C -328 to + 2,501 °F T - 250 to + 400 °C -418 to + 752 °F N - 200 to + 1,300 °C -328 to + 2,372 °F E - 150 to + 950 °C -238 to + 1,742 °F R 0 to + 1,767 °C 32 to + 3,212 °F S 0 to + 1,767 °C 32 to + 3,212 °F		- 100 to + 400°C -148 to + 752°F
Resolution	Display in °C: $\varnothing < 1,000\text{ °C}$: 0.1 °C and $\varnothing \geq 1,000\text{ °C}$: 1 °C Display in °F: $\varnothing < 1,000\text{ °F}$: 0.1 °F and $\varnothing \geq 1,000\text{ °F}$: 1 °F		Display in °C : 0.1°C Display in °F : 0.1°F
Intrinsic uncertainty in °C	(J. K. T. N. E) $\varnothing \leq - 100\text{ °C} \pm (0.2\% \text{ Reading} + 0.6\text{ °C})$ $- 100\text{ °C} < \varnothing \leq + 100\text{ °C} \pm (0.15\% R + 0.6\text{ °C})$ $+ 100\text{ °C} < \varnothing \pm (0.1\% R + 0.6\text{ °C})$ (R. S) $\varnothing \leq + 100\text{ °C} \pm (0.15\% R + 1.0\text{ °C})$ $+ 100\text{ °C} < \varnothing \pm (0.1\% R + 1.0\text{ °C})$		$\pm (0.4\% R + 0.3\text{ °C})$

FUNCTIONS

Recording	Manual start/stop on the product Short press on MEM: spot recording / Long press on REC: recording at the rate of the current mode Programmed recording Start date, recording rate (From 1 second to 1 hour) and end date can be customized with the PC software
Alarms	Alarm thresholds set using the software. Visual alert on the product in the event of an overrun Recording can be triggered on alarm thresholds
Data storage	More than 1 million points
Min-Max-Hold	Yes
Differential measurement	C.A 1822 only
Units	°C or °F
Backlighting	Yes
Automatic power off	Yes (configurable)

POWER SUPPLY

Type	3 x 1.5V AA / LR6 alkaline batteries Mains connection possible with the mains / micro USB adapter proposed as an accessory
Battery life	C.A 1821 & C.A 1822: 1,000 hrs (portable mode) C.A 1823 : 800 hrs (portable mode) 3 years for recording (15-minute measurement interval)

PHYSICAL SPECIFICATIONS

Interfaces	2 possible communication modes: Bluetooth and USB
Fixations	Casing equipped with a magnet, a wall-mount system and a slot for suspension of the product. Compatible with the Multifix accessory. Sheath available as an accessory
Connections	C.A 1821 and 1822: compensated miniature female connectors C.A 1823: 3-point flat connector
Dimensions / weight	150 x 72 x 32 mm / 260 g with batteries
Ingress protection	IP54 casing
Product operating range	Temperature from -10 to +60 ° C / Humidity from 10 to 90 %RH
Standards	IEC61010-1 / IEC 61326-1

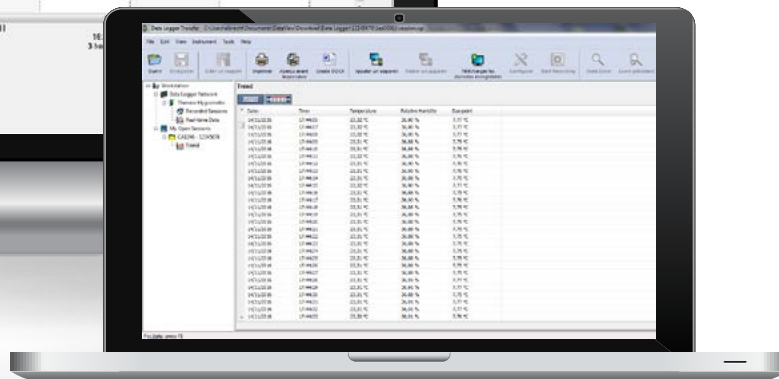
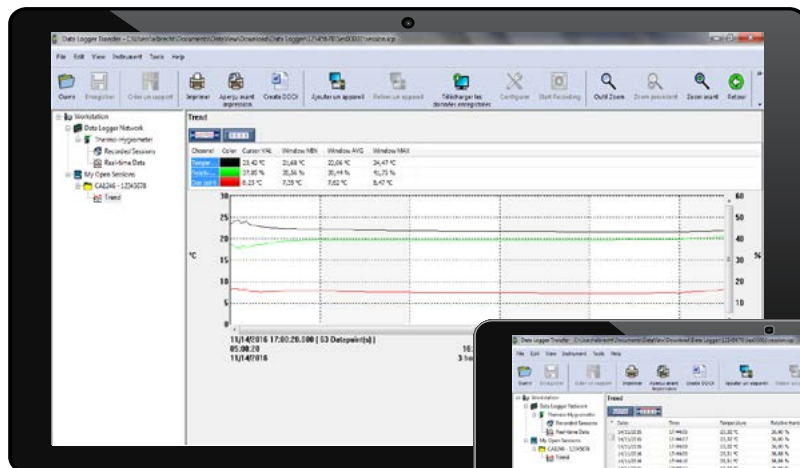
GENERAL SPECIFICATIONS

Windows Data Logger Transfer software functions	Real-time mode Automatic report generation in Word format Data format compatible with the Dataview software Graph or value-table presentation Data export in graph or Excel table format
Warranty	2 years

Data processing software

Data Logger Transfer, the software for analysing your data

Download and **display** of the data stored in memory
Display in table or graph form



 **Bluetooth®**



Configuration of the instruments connected
Programming of recordings and alarms
Data capture and **display** in real time

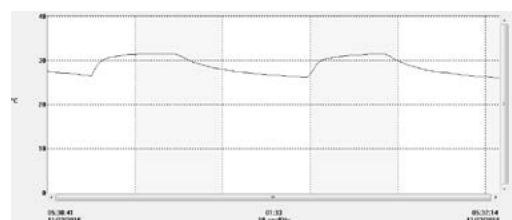




Session: Loc
Location: Par
Inst. Model: C.A
Inst Serial: A06
Inst Name: Cha

Instrument : C.A 1821 Nom : C.A 1821_A0629 N° de série : A0629
Emplacement : Local 1
Début : 23/11/2016 09:30:00 Fin : 23/11/2016 09:56:00 Nombre enregistrements : 15

Statistiques	Date	Heure	V1 [°C]	V2 []	V3 []
Moyenne	-	-	36		
Min	09/09/2014	09:30:00	30		
Max	09/09/2014	09:40:00	50		
Données					
01	09/09/2014	09:30:00	30		
02	09/09/2014	09:31:00	32		
03	09/09/2014	09:32:00	35		
04	09/09/2014	09:33:00	36		
05	09/09/2014	09:35:00	40		
06	09/09/2014	09:36:00	40		
07	09/09/2014	09:37:00	42		
08	09/09/2014	09:40:00	50		
09	09/09/2014	09:41:00	45		
10	09/09/2014	09:41:30	41		
11	09/09/2014	09:42:00	31		
12	09/09/2014	09:42:30	31		
13	09/09/2014	09:42:50	32		
14	09/09/2014	09:44:00	33		
15	09/09/2014	09:45:00	32		
16	09/09/2014	09:46:00	45		
17	09/09/2014	09:47:00	41		
18	09/09/2014	09:48:00	31		
19	09/09/2014	09:49:00	31		
20	09/09/2014	09:50:00	32		
21	09/09/2014	09:51:00	33		
22	09/09/2014	09:52:00	32		
23	09/09/2014	09:53:00	33		
24	09/09/2014	09:54:00	32		
25	09/09/2014	09:55:00	33		
26	09/09/2014	09:56:00	32		



Automatic report generation

Exportable in Word format

This simplifies printing and archiving



ADDITIONAL INFORMATION

Export into an Excel spreadsheet or a jpeg file
Export of measurement data into DataView (*.dvb files)
Multilingual software

Minimum configuration:

- Windows 7 (32/64 bits)
- 2 GB RAM
- 200 MB disk space

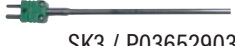
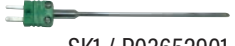
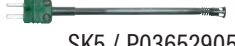


To obtain this application software
Visit our website at
www.chauvin-arnoux.com

Windows® is a registered trademark of Microsoft®.

Sensors

K THERMOCOUPLE

Models	Description	Measurement range	Tolerance class	63% response time	Plunger diameter	Plunger length
 SK 20 / P01655010	Flexible general-purpose sensor made of inconel 600	-40°C to 450°C	Class 1	1 second	1.5 mm	1 m
 SK13 / P03652918	General-purpose sensor with stainless-steel sheath	-50°C to 1100°C	Class 2	12 seconds	3 mm	30 cm
 SK3 / P03652903	Semi-rigid general-purpose sensor with stainless-steel sheath	-50°C to 1000°C	Class 2	6 seconds	4 mm	50 cm
 SK2 / P03652902	Bendable general-purpose sensor with stainless-steel sheath	-50°C to 1000°C	Class 2	2 seconds	2 mm	1 m
 SK6 / P03652906	Flexible sensor not suitable for liquids	-50°C to 285°C	Class 2	1 second with contact 3 s ambient	1 mm	1 m
 SK7 / P03652907	Air sensor for ambient measurements	-50°C to 250°C	Class 2	5 seconds	5 mm	15 cm
 SK17 / P03652921	Air sensor for ambient measurements with handle and spiral cable	-50°C to 600°C	Class 2	5 seconds	6 mm	13 cm
 SK1 / P03652901	Needle sensor for penetration with stainless-steel sheath	-50°C to 800°C	Class 2	1 second	3 mm	15 cm
 SK11 / P03652917	Needle sensor for penetration with handle and stainless-steel sheath	50°C to 600°C	Class 2	12 seconds	3 mm	13 cm
 SK4 / P03652904	Sheathed surface sensor with stainless-steel sensing element and Teflon base	0°C to 250°C	Class 2	1 second	5 mm	15 cm
 SK14 / P03652919	Elbowed surface sensor	-50°C to 450°C	Class 2	8 seconds	6 mm	13 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
 SK15 / P03652920	Surface sensor with spring and handle	-50°C to 900°C	Class 2	2 seconds	8 mm	13 cm
 SK8 / P03652908	Pipe sensor	-50°C to 140°C	Class 2	10 s on stainless-steel pipe Ø 12mm	90 mm	32 cm
 SK19 / P03652922	Magnetic sensor with magnet for flat metal surfaces.	-50°C to 200°C	Class 2	7 seconds	4 mm	1 m

Class 1: -40 °C... +375 °C : $\pm 1.5^{\circ}\text{C}$ / +375 °C...+1,000 °C : $\pm 0.004 \times t^{\circ}\text{C}$ · Class 2 : -40 °C... +333 °C : $\pm 2.5^{\circ}\text{C}$ / +333 °C...+1,200 °C : $\pm 0.0075 \times t^{\circ}\text{C}$
Standard compensated miniature male 2-pole connector / Spiral cable: 45 cm to 1 m

EXTENSIONS FOR THERMOCOUPLES



Models	CK3	CK 2	CK1	CK 4
	Description	Ø	Length	
CK1	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



PT100 Ω TEMPERATURE SENSORS

Models	Description	Measurement range	Tolerance class	63% response time	Plunger diameter	Plunger length
SP14 P01655020	General-purpose sensor with stainless-steel sheath	-100 to 450°C	Class A	7 seconds	3 mm	20 cm
SP10 P03652712	Surface sensor with spring	-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

Class A: $0.15^{\circ}\text{C} + 0.002 \times [t]^{\circ}\text{C}$

Class B: $0.3^{\circ}\text{C} + 0.005 \times [t]^{\circ}\text{C}$ Miniature flat-pin connector, 3 poles · Spiral cable: 45 cm to 1m



Standard state at delivery:



Bag, 3 x 1.5 V AA alkaline batteries, USB cable, test report and quick start-up guide (Complete user manual and Data Logger Transfer software available from the Chauvin Arnoux website)

TO ORDER

C.A 1821 Single-channel thermocouple thermometer P01654821

C.A 1822 Two-channel thermocouple thermometer P01654822

C.A 1823 Single-channel resistance thermometer P01654823

Accessories / Replacement parts

K THERMOCOUPLE SENSORS

SK 1	P03652901	SK 6	P03652906	SK 14	P03652919
SK 2	P03652902	SK 7	P03652907	SK 15	P03652920
SK 3	P03652903	SK 8	P03652908	SK 17	P03652921
SK 4	P03652904	SK 11	P03652917	SK 19	P03652922
SK 5	P03652905	SK 13	P03652918	SK 20	P01655010

EXTENSIONS FOR THERMOCOUPLES

CK 1	P03652909	CK 3	P03652913
CK 2	P03652910	CK 4	P03652914

PT100 Ω TEMPERATURE SENSORS

SP 10	P03652712	SP 12	P03652714
SP 11	P03652713	SP 13	P03652715
		SP 14	P01655020

Handle for K TC extension P03652912
 Connector for K thermocouple P03652925
 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 + Battery charger HX0053

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