



ASYC IV ca 5292 & ca 5293

RECORDER-MULTIMETERS WITH GRAPHICAL COLOUR SCREEN

ASYC IV, the reference for multimeters in the lab and in the field!

Optimized display:

- Graphical display of trends and multiple parameters
- 600 Hz waveform
- Storage of up to 30,000 measurements with direct access [Mem]
- Power supply via USB charger
- Top-of-the-range specifications: 100 kcts, 200 kHz bandwidth and 0.02% accuracy
- Multiple analytical tools: time/date-stamped monitoring of Min/Max/Avg and Peak, filtering, duty cycle

... While continuing to offer unrivalled simplicity of use!









C.A \$292-BT



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Up

ICS Schneider Messtechnik GmbH Briesestraße 59 D-16562 Hohen Neuendorf / OT Bergfelde

Tel.: 03303 / 504066 Fax: 03303 / 504068 info@ics-schneider.de www.ics-schneider.de

Measure



imultaneously portable and benchtop multimeters, the ASYC IV models are simple and intuitive to use. Accessible directly, the various measurements are represented explicitly in the form of pictograms on the electronic switch.

The display allows users to view the measurement results either as numeric values or as graphs showing the trend over time. Recorded measurements can be displayed as traces, with the possibility of positioning cursors and zooming on a part of the recorded curve.

An integrated help function available in French and English provides information on the measurements in progress. USB or BT communication is provided to transfer the data onto a PC for saving and programming with the LV/LW drivers. Once the instrument is connected to the PC, the firmware can be updated by accessing the "Loader" program on the web.

PROTECTED TERMINAL STRIP

The terminal strip for the measurements is located at the top of the instrument to ensure that the screen remains as easy to read as possible. If the cables are connected to the wrong inputs, there is an audible alert signal and the function is recognized automatically.

4 terminals: 3 measurement inputs
+ 1 isolated connection for USB communication



GRAPHICAL SCREEN

Monitoring of the evolution of the main quantity or display of the waveform

SELECTION OF THE MEASUREMENT FUNCTION

By means of a function key which is lit to remind you of the function selected for intuitive configuration



CHAUNIN ARNOUX

SMIN

SMAX

225.58

227.53

Utilisez les touches Fx pour cho

EP 1

0.3%, 30 digits

C.A 5293

V

V

AC+DC

F3

F4

Range

IR

DISPLAY WITH LARGE DIGITS

Multiple parameters with 3 levels of backlighting which vary automatically according to the lighting conditions for better visibility and more comfortable reading.



F1 - F4 FUNCTION KEYS

IP 67 MOULDED CASING

For instrument safety and comfortable handling



SYC IV multimeters are ideal for many applications in the industrial sector, telecommunications and Defence. Their multiple functions make them easy to use for electrical, electronics and machine maintenance. In the electronics sector, the ASYC IV models can be used to test wiring, IT or medical equipment and SMDs.

With their IP67 protection, they are designed to be dustproof and watertight for difficult environments. In industry, they are ideal for applications involving automation and processes in a wide variety of sectors: agri-food, plastics, concrete, metal, paper, wood, oil, nuclear.

ASYC IV multimeters can be used for the maintenance of many industrial machines: numerical control systems, motors, generators, etc.

These versatile instruments are also suitable for the needs of expert electrical installers and professionals in the transport and energy sectors.

The high-performance, affordable and ergonomic ASYC IV models also have their place in education and research.



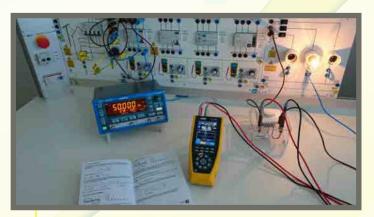
Temperature measurement on solar panels. The practical magnetized Multifix accessory allows you to work hands-free.



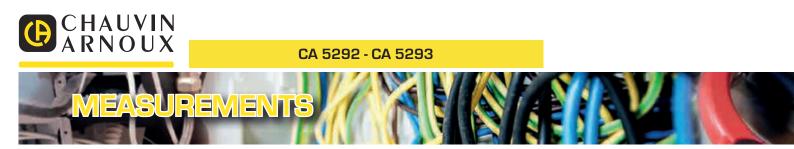
Measurements on heating and air-conditioning systems: current, voltage and temperature.



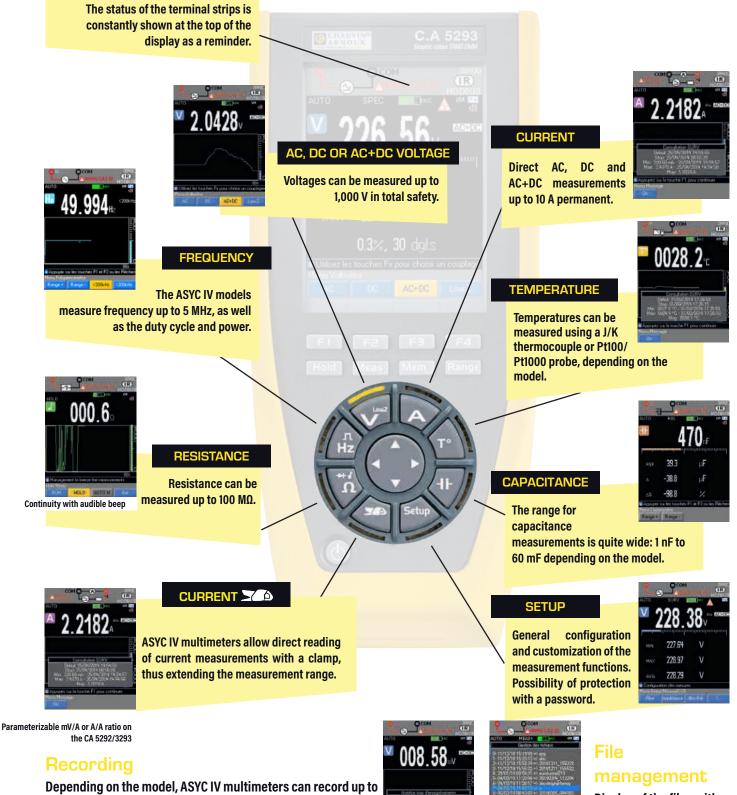
Measurement with leakage current clamp and recording of the fault.



High-performance functions for R&D and laboratory testing.



The TRMS AC voltage and current measurements are also accurate on non-linear signals.



30,000 values. The simplified parameterization concerns the number of measurements, the recording interval (0.2 s to 24 h), the duration and the storage capacity.

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Display of the files with

time/date stamp and campaign name.

FUNCTIONS

Display of the trends of each main quantity with time base parameterizable from 1min28s to 1h13min20s.

CONTROL OF THE MEASUREMENT BY MEANS OF SURV AND PEAK FUNCTIONS

Time/date-stamped capture of the minimum / maximum/ average and PEAK values enables you to record the transient values and variations automatically. This function can be used for effective detection of a signal's variations or anomalies.



RELATIVE VALUES FOR GREATER ACCURACY

The REL relative mode can be used to express the measurements in terms of their absolute and relative

deviation from the reference measured.





STORAGE OF 30,000 RECORDED VALUES IN THE MULTIMETER'S MEMORY

Main and secondary values with graphical trace.

WAVEFORM DISPLAY

Display of a V or I signal up to

600 Hz, with automatic trigger.

Practical when you want to find

out the shape and evolution

of a signal.



Depending on the model, users can integrate the transformation ratio to allow direct reading of the current value, whether the clamp is equipped with a V output or an A output.



ACCURATE MEASUREMENTS, INCLUDING ON VARIABLE SPEED DRIVES

A 300 Hz low-pass filter guarantees accurate voltage and frequency measurements on PWM variable speed drives.

FLEXIBILITY

The RANGE function automatically selects the most suitable measurement range for the measurements in progress.

USER-FRIENDLY & TIME-SAVING

The "user/basic" function saves the setting preferences defined by the user when the instrument is powered down. This means you don't have to readjust the settings every time you switch on! This function is password-protected.

MATH FUNCTION

This function is suitable for measuring any physical quantity by conversion into the appropriate unit and offers direct readings (Ax + B).



Hz FUNCTION

Frequency can be measured up to 5 MHz. This function can also be used to measure the +/- duty cycle for analysis of the active or inactive intervals of switching signals or logic signals. PW+/- pulse width measurement can be used to check electronic fuel injection systems and switching power supplies.





These portable multimeters with graphical colour display allow direct measurement of the main electrical quantities and instantaneous display of the trends. With their innovative design, they are compact, rugged, watertight and easy to grip. Other advantages include the product HMI, the advanced measurement functions and the measurement help function.

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High-performance graphical multimeters...

- Easy-to-read 320 x 240-pixel colour matrix screen with black background
- Graphical display of the trends in a summary screen
- Trace, cursors and zoom on the recordings
- Recording of up to 30 sequences
- Automatic waveform display

Dynamic recorders...

- Storage of up to 30,000 measurements in memory. Simplified parameterization of the number of measurements, the interval, the duration and the storage capacity...
- Internal storage of 30 measurement sequences
- File manager: with date, time and name.
- Interactive zoom function and cursors on the recordings
- A simple monitoring mode displaying the time/date-stamped MIN/MAX and AVG values

...And more

- Contextual reminder of the connections
- Standard USB communication plus Bluetooth option
- IP67 ingress protection resistant to water projection and dust, suitable for outdoor use
- Commercially-available NiMH AA rechargeable battery, the best pricequality solution
- Battery life of up to 100 hours with management of the battery level
- No time wasted: the instrument operates while charging at the same time



WEORM

Gestion des fichi

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450 val (0.3 s), V

	CA 5292	CA 5293
Display resolution (counts)	100 k	100 k
VAC/DC/AC+DC (BW)	100 kHz	200 kHz
VLowZ	•	•
IAC / I DC	•	•
IAC+DC	٠	٠
IAC/DC direct reading	•	•
Resistance	•	•
Capacitance	•	•
Frequency meter	•	•
Audible continuity / Diode test	•/•	•/•
K TC / Pt100 temperature	•/•	• / •
dBm (/R) / dB (/Vref)	•/•	•/•
Resistive power	•	•
Duty cycle / Pulse width / Pulse counting	• • •	•/•/•
HOLD / Auto- HOLD	•/•	• / •
Min / Max / Avg	•/•/•	•/•/•
Peak+ / Peak- / CF	•/•/•	• / • / •
Relative	•	•
measurements		
MATH function	•	•
Recording	10,000	30,000
USB / Bluetooth communication	• / • (option)	• / • (option)
CAT III / CAT IV	1,000 V / 600 V	1,000 V / 600 V
3-year warranty	•	•

Documents available

- Start-up guide in 20 languages
- User's manual in more than 11 languages
- SCPI programming guide in 2 languages
- and, as always, the HMI in 5 languages!



Communication



The ASYC IV models are equipped with a universal communication mode, based on the SCPI standard, via USB or Bluetooth. The SX-DMM software is a simple, effective tool for display, processing and analysis of the data. SX-DMM is delivered as standard with the product and updates are available to download free of charge from the Support website. The SX-DMM software can be used for real-time processing of the data on a PC, upgrading of the instrument and calibration, as well as offering a new function for automatic adjustment of the time on the instrument. It is also possible to display the storage capacity. The ANDROID application, available for download from the Google store, can be used to monitor measurement campaigns and view the measurements remotely.





241.61 vvv

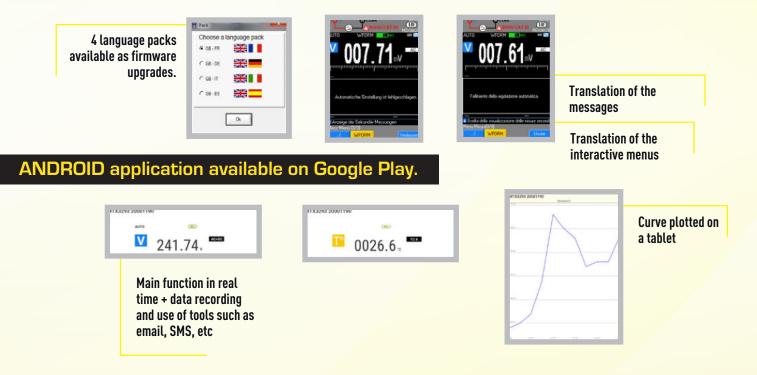
Display of the data and the curve with the spreadsheet export function.

Intervale	Vitesse rapide
pacté d'enregistrement 4:10:00 ention pour un multimètre bie, s'assurer de son tonomie. Utiliser le chargeur ur une longue acquistion.	Canal CH1 Seul
Fixer la durée d'enregistrement	000 00 00 0

Catal		Type de fonction	Undé des Y		b	ε.
CHI	2	4-20nA	Vacdo	\$ 1.000	-	\$1,9,008
CH2	đ	Sante	1	\$ 100	5.000	\$ 1000
сна	5	NOR.	The -	\$1100	\$ 2.000	\$1100
CH4	5	kirre		\$70.000	2 100	\$1000

Mathematical functions applied to the data

The loader! Choose your working language from the 5 languages available.



CHAUVIN ARNOUX		CA 5292	CA 5293			
DC, AC and AC+DC voltages		TRMS				
Range		100 mV */ 1000 mV / 10 V / 100 V / 1000 V				
Resolution		1 μ V / 10 μ V / 0.1 mV / 1 mV / 10 mV				
AC and AC+DC bandwidth		100 kHz	200 kHz			
DC accuracy		0.03%	0.02%			
AC and AC+DC (VLowZ) accuracy		0.3%	0.3%			
DC, AC and AC + DC TRMS c	urrent					
Range		1000 μA / 10 mA / 100 mA / 1000 mA / 10 A / 20 A (30s	max on 100 A range)			
Resolution		10 nA / 0.1 μA / 1 μA / 10 μA / 100 μA				
DC / AC and AC+DC accurac	:y	0.08% / 0.3%				
AC and AC+DC bandwidth		50 kHz				
Frequency						
Frequency range		10 Hz / 100 Hz / 1 kHz / 10 kHz / 100 kHz / 1 MHz / 5 MHz				
Resolution		0.0001 Hz / 0.001 Hz / 0.01 Hz / 0.1 Hz / 1 Hz / 10 Hz / 100 Hz				
Resistance and continuity						
Ranges		100 Ω */ 1 kΩ / 100 kΩ / 1000 KΩ / 10 MΩ /	100 ΜΩ			
Resolution		$0.001 \ \Omega \ / \ 10 \ m\Omega \ / \ 100 \ k\Omega \ / \ 10\Omega \ / \ 1 \ k\Omega$				
Basic accuracy		0.07%				
Protection		1000 V electronic protection				
Audible continuity detection		$1000 \Omega / SIGNAL < 20 \Omega < 3.5 V$				
Diode test						
Threshold voltage measurem	ent	Diode 0 -2.6 V <1 mA + Zener diode or LED 0-2.6	V <11 mA			
Capacitance						
Ranges		1 nF / 10 nF / 100 nF / 1000 nF / 10 μF / 100 μF /	1 mF / 10 mF			
Resolution*		1 pF / 10 pF / 0.1 nF / 1 nF / 0.01 μF / 0.1 μF / 1 μF / 10 μF				
Temperature with Pt100/10)00 and K/J	thermocouples				
Operating range	,	-200 °C to +800° C with Pt and -40 to +1200 °C with I	K thermocouple			
Accuracy		0.1 %				
Other Measurement function	IS					
SURV MAX/MIN/AVG		Time/date-stamped on all the main position	ns			
REL		Reference-delta relative value on 3 displays + main measurement				
PWM filter		4th order 300 Hz low-pass filter for measurements on variable speed drives of asynchronous motors				
SPEC		Display of the measurement tolerance + Smin + Smax				
GRAPH		Trends of main measurements with max., variable time and display of waveform (50/60 and 600 Hz)				
Secondary measurements		3 measurements + main measurement				
Measurement storage		10,000 I 30,000				
*manual access		10,000 1 00,000				
General specifications			OPTIONS			
Type of display	Colour graph	nical (70x52) with backlighting and black background on 4 x 100,000-count displays	Calibration softwareP0119677			
	0 1		Kit of 4 NiMH batteriesHX0051			
PC interfaces		3 connector or Bluetooth (option) – SX-DMM software and ANDROID application				
Power supply		SB-type charger or 4 AA batteries or NiMH rechargeable batteries				
Safety / EMC	:	Safety as per IEC 61010-1, IEC 61010-2-033 1000 V-CAT III / 600 V CAT IV EMC as per EN 61326-1				
Environment		Storage: -20 °C to +70 °C - Operation: 0 °C to +40 °C				
Mechanical specifications		Dimensions (L x W x H): 196x90x47.1 mm – Weight: 570 g				
Warranty		3 years				
STATE AT DELIVERY		REFERENCES				
4 x 1.5 V NiMH rechargeable bat	teries	CA 5292P01196802				
1.5 m straight/straight red cable	е	CA 5293P01196803	S. AFARE			
1.5 m straight/straight black cable		CA 5292BTP01196812				
Red CAT IV 1 kV test probe		CA 5293BTP01196813				

USB charger + USB connection cable

User's Manual on CD and multilingual start-up guide on paper

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