

» Current loop calibrator

With its robust custom housing the CSC101 is ideal for both field and workshop use. It is an excellent calibrator and a convenient tool for a process engineer

» Highest accuracy

The CSC101 is designed to meet the highest accuracy demands from modern sensors and transmitters: resolution 1 µA

» Intuitive one knob operation

The CSC101 is an advanced, but easy-to-use loop calibrator, due to its one knob operation

» Advanced step and ramp functions

User defined time and step time settings up to 300 seconds and an intuitive "fast" key step system

» Small and handy

The size and shape of the CSC101 is designed to fit into a technician's hand

» 40 hour battery life

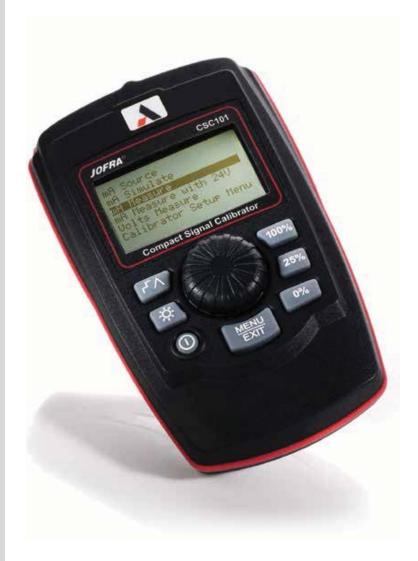
The CSC101 is powered by 6 AAA batteries, typically giving the unit over 40 hours of battery life

» High resolution display

Clear and bright display gives you optimal readout in sunlight or low light conditions

Compact Signal Calibrator

CSC101



The JOFRA CSC101 is a compact mA loop signal calibrator. You can use it to calibrate or measure mA as well as loop voltage. The unit is easy-to-use, with an intuitive user interface and comprehensive ramp and step functions. All functions are displayed on a high resolution display. The high accuracy of the CSC101 has not been achieved on account of fragile measurement or source circuitry, the unit has fuseless protection – which might save you a calibrator or lower your cost of ownership.



The Right Source For Your Test & Measurement Needs

8715 Mesa Point Terrace San Diego, CA 92154
Toll Free: 1.866.363.6634 Tel: 1.619.429.4545 Fax: 1.619.374.7012
Email: sales@calright.com http://www.calright.com



SPECIFICATIONS

Ambient specifications

Display

Current measure, source and sink

Range	0 to 24 mA
Span0	to 24 or 4 to 20 mA
Accuracy	±0.01% RDG + 2 μA
mA resolution	1 µA
Over current protection	28 mA
Hart resistor, software on/off	250 Ω
Loop Drive Capacity, no HART resistor	r1200 Ω
Loop Drive Capacity, with HART resist	or950 Ω
Loop Supply	24 VDC ±5%

Voltage measure

Range	0 to 30 VDC
Accuracy	
Voltage resolution	1 mV
Over voltage protection	240 VAC

Auto ramp & step

Auto ramp time	5 to 300 sec.
Auto step time	
Step size	
Low battery warning	•

Valve test

Auto step time	5 to 300 sec.
Number of steps	9 steps
Range	

Power specifications

Batteries	6 x AAA batteries
Battery type	Alkaline, Lithium or NiMH
Battery life	Approx. 40 hours
Auto power off	1 to 30 min., or permanently on
Low battery warning	Yes

Physical specifications (LxHxW)

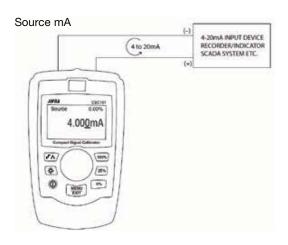
Instrument	150 x 90 x 30 mm / 6 x 3.6 x 1.3 in
Weight	0.3 kg / 9.5 oz
Shipping size 285 >	x 110 x 160 mm / 11.2 x 4.3 x 6.3 in
Shipping weight	1.23 kg / 43.4 oz

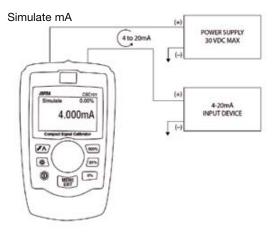
Miscellaneous

CE - EMC EN 61326, ANNEX A (Portable Instruments)

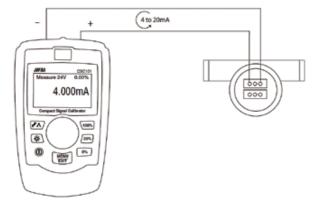
Accuracy includes hysteresis, nonlinearity, repeatability, reference standard uncertainty and 1 year typical long-term stability; operated inside the rated temperature span and range.

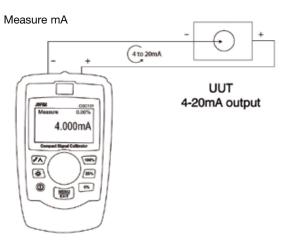






Measure mA, CSC 101 supplying 24 VDC







Two 4 mm safety connectors are located at the top of the CSC101. This keeps measurement wires away from the knob and display.

JOFRA

Source Simulate

Minimasure mA Measure with 240 Volts Measure

Calibrator Setup Menu

Compact Signal Calibrator

FXIT

CSC101

Large high-resolution, high-contrast graphic display for easy reading.

Auto step and ramp, user defined sweep/step time. Up to 300 seconds.

High density back light.

Power ON / OFF, auto power off from 1 to 30 minutes or permanently on setting.

MENU / EXIT, easy intuitive entry, exit for the menu system.

mA Source
mA Simulate
mA Measure
mA Measure with 24V
Volts Measure
Calibrator Setup Menu

Easy step keys from 0%, 25% and 100% with a touch of a finger.

Rotary knob with built-in ENTER push function – all entries for system set-up and output values are done with this intuitive tool. This makes it possible to hold and operate the CSC101 with only one hand.



ORDERING INFORMATION

 der no. C101			Description Base model Handheld loop signal calibrator
	G H		Certification NIST traceable temperature certificate (standard) Accredited calibration certificate
		В	Accessories Rechargeable battery pack

CSC101 G B Sample order number

CSC101 calibrator with standard NIST traceable temperature certificate and rechargeable battery pack.

STANDARD DELIVERY

- JOFRA CSC101 Compact Signal Calibrator
- Traceable calibration certificate
- Reference manual
- Test leads



The CSC101 is a member of the comprehensive range of JOFRA handheld process calibrators.



AMETEK Test & Calibration Instruments
A business unit of AMETEK Measurement & Calibration
Technologies Division offering the following industry
leading brands for test and calibration instrumentation.

JOFRA Calibration Instruments
Temperature Calibrators
Portable dry-block calibrators, precision thermometers
and liquid baths. Temperature ranges from
-90°C(-130°F) to 1205°C(2200°F). Temperature sensors
for industrial and marine use.
Pressure Calibrators
Convenient electronic systems ranging from -25 mbar to

Convenient electronic systems ranging from -25 mbar to 1000 bar - fully temperature-compensated for problemfree and accurate field use. Signal Instruments Process signal measurement and simulation for easy

control loop calibration and measurement tasks.

M&G Pressure Testers & Pumps Pneumatic floating-ball or hydraulic piston dead weight testers with accuracies to 0.015% of reading. Pressure generators delivering up to 1,000 bar.

Lloyd Instruments
Materials testing machines and software from Lloyd
Instruments guarantees expert materials testing
solutions. The comprehensive program also covers
Texture Analysers to perform rapid, general food testing
and detailed texture analysis on a diverse range of foods
and cosmetics.

Davenport Polymer Test Equipment
Allows measurement and characterization of moisturesensitive PET polymers and polymer density.

Chatillon Force Measurement
The hand held force gauges and motorized testers
have earned their reputation for quality, reliability and
accuracy and they represent the de facto standard for
force measurement.

Newage Testing Instruments Hardness testers, durometers, optical systems and software for data acquisition and analysis.

