

signal

JOFRA
calibration

» **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 μ A

» **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.

1.888.610.7664



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SS-CSC101

TEST & CALIBRATION INSTRUMENTS

SPECIFICATIONS

Ambient specifications

Operating temperature -10 to 55°C / 14 to 131°F
Storage temperature -20 to 60°C / -4 to 140°F
Humidity range, non condensing 10 to 95%RH
All specifications specified
at ambient temperature 23°C ±5°C / 73°F ±9°F
Outside ambient 23°C ±5°C ±20 ppm FS/°C
Outside ambient 73°F ±9°F ±12 ppm FS/°F

Display

Resolution 128 x 64 pixels
Digit size (primary measure/source) 8.6 mm / 0.34"
Back light LED

Current measure, source and sink

Range 0 to 24 mA
Span 0 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 1200 Ω
Loop Drive Capacity, with HART resistor 950 Ω
Loop Supply 24 VDC ±5%

Voltage measure

Range 0 to 30 VDC
Accuracy ±0.01% RDG + 2 mV
Voltage resolution 1 mV
Over voltage protection 240 VAC

Auto ramp & step

Auto ramp time 5 to 300 sec.
Auto step time 5 to 300 sec.
Step size 25% / 5 steps
Low battery warning Yes

Valve test

Auto step time 5 to 300 sec.
Number of steps 9 steps
Range -1.25 to 101.25%

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)

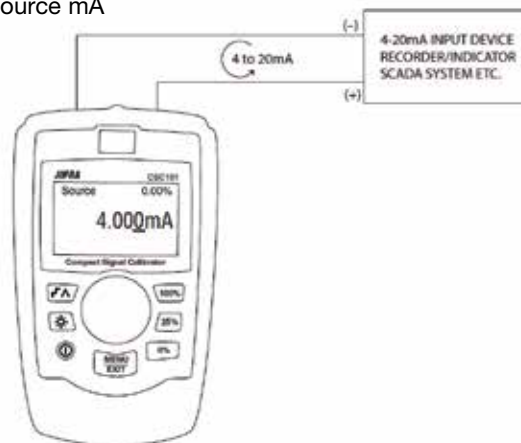
Instrument 150 x 90 x 30 mm / 6 x 3.6 x 1.3 in
Weight 0.3 kg / 9.5 oz
Shipping size 285 x 110 x 160 mm / 11.2 x 4.3 x 6.3 in
Shipping weight 1.23 kg / 43.4 oz

Miscellaneous

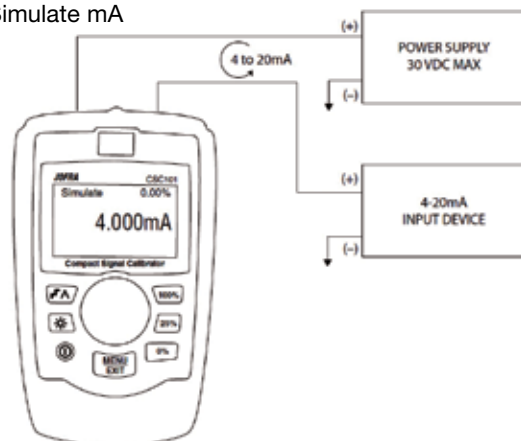
CE - EMC EN 61326, ANNEX A (Portable Instruments)

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

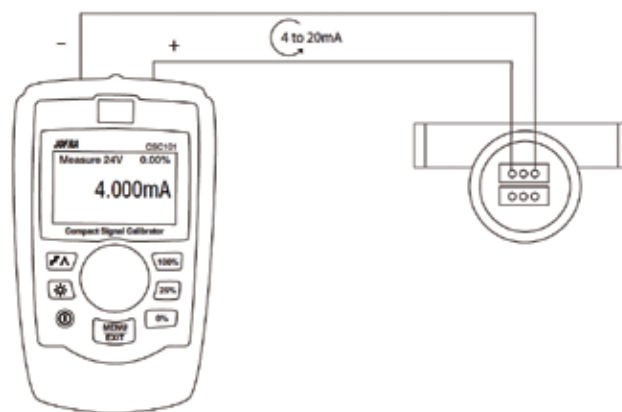
Source mA



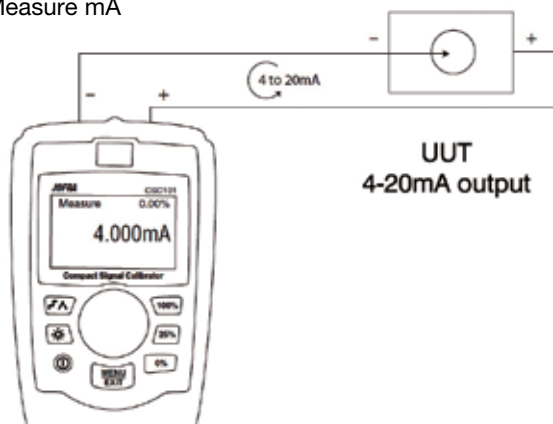
Simulate mA



Measure mA, CSC 101 supplying 24 VDC



Measure mA



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

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.

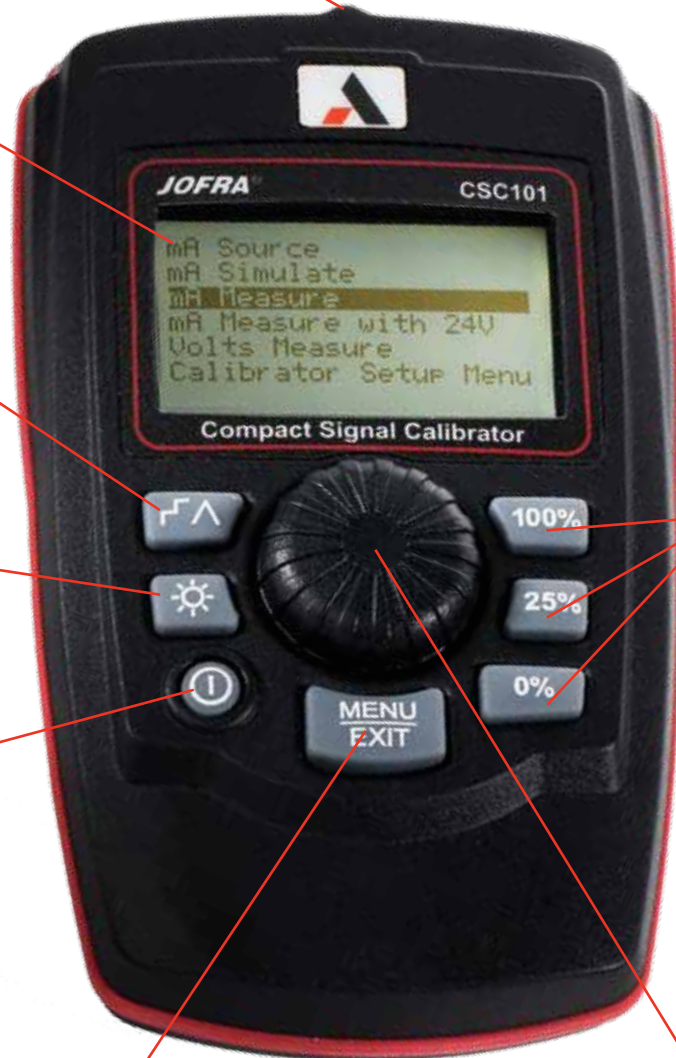
Power ON / OFF, auto power off from 1 to 30 minutes or permanently on setting.

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

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.

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



ORDERING INFORMATION

Order no.	Description	
CSC101	Base model Handheld loop signal calibrator	
	G	Certification NIST traceable temperature certificate (standard)
	H	Accredited calibration certificate
	B	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 1000 bar - fully temperature-compensated for problem-free 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 moisture-sensitive 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.

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