

35 Vantage Point Drive // Rochester, NY 14624 // Call 1.800.800.5001

# JOFRA Note and the second seco

# Compact Signal Calibrator

# **CSC101**

# » 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



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.



# **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	g 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	
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 resi	istor1200 Ω
Loop Drive Capacity, with HART re	sistor950 Ω
Loop Supply	24 VDC ±5%

# Voltage measure

Range	0 to 30 VDC
Accuracy	
Voltage resolution	
Over voltage protection	

#### 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

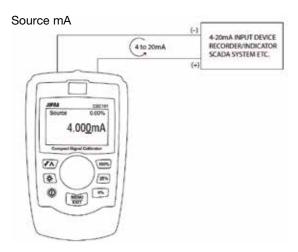
#### Physical specifications (LxHxW)

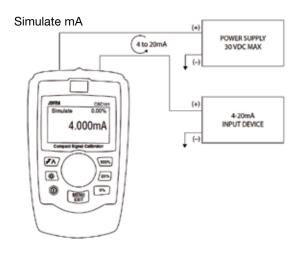
Instrument	150 x 90 x 30 mm / 6 x 3.6 x 1.3 in
Weight	0.3 kg / 9.5 oz
Shipping size 285 x	110 x 160 mm / 11.2 x 4.3 x 6.3 in
Shipping weight	1.23 kg / 43.4 oz

#### **Miscellaneous**

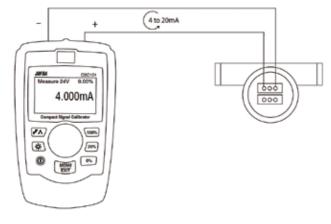
CE - EMC ...... EN 61326, ANNEX A (Portable Instruments)

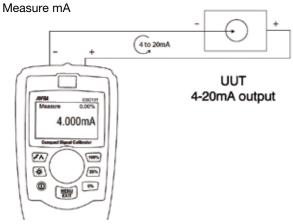
Accuracy includes hysteresis, nonlinearity, repeatability, reference standard uncertainty and 1 year typical long-term stability; operated inside the rated temperature span and range.





Measure mA, CSC 101 supplying 24 VDC





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

operate the CSC101 with only one hand.

#### **ORDERING INFORMATION**

	ler no. C101			Description Base model Handheld loop signal calibrator
03	5101			Hariurielu 100p signai calibrator
	1	Э Н		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.





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#### **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 moisturesensitive PET polymers and polymer density.

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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.