



**TECPEL®**

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## Process Loop Calibrator

### Model: CL-420A

The Tecpel CL-420A is a versatile, high accuracy, battery-powered, and very rugged hand-held process calibrator that allows process technicians to simulate and source variables signals including 0~22mA, 0~28V, Loop power 24V that are widely used in calibration for industrial field and laboratory application,

it is one of necessary tools used to measure and calibrate industrial automation systems and instruments. Get your job done fast and get it done precisely at affordable price. Your right choice!

### Features:

Source and simulate virtually all electronic process signals.

Loop Calibrator simultaneous mA and % readout.

Fast and easy to interpret reading mA accuracy of 0.05%

Push button 25% steps for easy and fast linearity check 24V internal loop supply.

Able to power and read a transmitter at the same time.

Low battery display indication.

Rugged and easy to use design.

Measures to 28VDC and 22mA

Output simulation to 22mA

**Resolution in all ranges 0.001**  
**Loop Power available 24VDC**  
**2 wire simulation SINK function**  
**Accuracy 0.05% of value +4 micro amps**  
**Uses 9V battery for 20 hours life at 10mA**  
**Comes complete with rubber holster and test leads.**

### Specifications:

Input	Range	Input range	Resolution	Accuracy	Explanation
Voltage	28V	-0.200 ~28.000V	1mV	±0.02% reading ±2mV	Input resistance 2MΩ
Current	20mA	-1.000~22.000mA	0.001mA	±0.02% reading ±4uA	Input resistance 20MΩ
Loopcurrent	20mA	0.000~22.000mA	0.001mA	±0.02% reading ±4uA	Supply 24V loop power

Output	Range	Input range	Resolution	Accuracy	Explanation
Current	20mA	0.000~22.000mA	0.001mA	±0.05% Setting value ±4uA	20mA,the max.overload is 1kΩ(Note1)
Analogue transducer	-20mA	0.000~~22.000mA	0.001mA	±0.05% Setting value ±4uA	20mA,the max.overload is 1kΩ(Note2)
Looppower	24V			±10%	The max.output current is 25mA

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Power	9V battery (ANSI/NEDA 1640A or IEC 6LR619 alkaline)
Battery	Approx. 20 hours under the condition of 10mA
Max.allowable voltage	30V
Operation temperture range	0-50°C
Operation humidity range	≤80%RH
Store temperature range	≤-10°C-50°C
Store humidity range	≤90%RH
Size	200×100×40mm
Weight	550g(with holster)
Accessories	Operation manual,test line CF-36(probe with alligator clip)
Security	Conforms to IEC 1010

Note:

- 1.The max.overlaod is 1kΩ at 20mA range when the power is higher than 6.8V,  
The max.overlaod is 700Ω at 20mA range when the power is higher than 5.8-6.8V,
- 2.Power supply range:DC 5-25V
- 3.Temperature coefficient:±0.005%,range/°C(5°C-18°C,28°C-40°C)

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