

## Process Calibrator 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!



- \* Output and measure DCA (20mA) loop current; measure DCV (28V)
- \* To simulate the output of the transmitter.
- \* Can provide 24V loop power supply.
- \* Provide 24V loop voltage and measure current at the same time.
- \* Can perform switch on and off measurement.
- \* Can perform step and zero, Full point fast operation
- \* Can produce fast and slow 4~20mA current automatic ramp output can display mA and percentage
- \* 5-bit LCD large character display, easy keyboard
- \* Compact, sturdy and reliable, especially

### 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
Loop current	20mA	0.000~22.000mA	0.001mA	±0.02% reading ±4uA	Supply 24V loop power

Output	Range	Input range	Resolu- tion	Accuracy	Explanation
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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)
Loop power	24V			±10%	The max. output current is 25mA

Power	9V battery (ANSI/NEDA 1640A or IEC 6LR619 alkaline) or AC power adapter
Battery	Approx. 20 hours under the condition of 10mA
Max. allowable voltage	30V
Operation temperature 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)
Options	AC adapter(VCPS),test line CF-31-A(probe clip)
Security	Conforms to IEC 1010

**Note:**

- 1.The max. over load is 1kΩ at 20mA range when the power is higher than 6.8V,  
The max. over load 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)