



### Voltage and Current Process Calibrator.

Tecpel CL-420A is a versatile, high accuracy, battery-powered, and very rugged hand-held process calibrator that allows process technicians to simulate and measure from loop powered devices and other sensors

#### General Specifications

Power supply : 2 1.5V alkaline batteries(LR6)

Battery life : about 400mA /3V under the condition of 10mA with  
1k $\Omega$  load

Max. permitted voltage : 30V(between any two terminals or  
between any terminal and earth ground)

Operating temperature : 0°C to 50°C

Operating relative humidity :  $\leq$ 80% RH



Output Performance Index (applicable to temperature range from 18°C to 28°C, within one year after calibration)

Output	Range	Output Range	Resolution	Accuracy	Remark
DCA	20mA	0.000 ~ 22.000mA	0.001mA	$\pm$ 0.05% set value $\pm$ 4uA	Max. load 1K $\Omega$ at 20mA.
Simu-transmitter(absorption current)	-20mA	0.000 ~ -22.000mA	0.001mA	$\pm$ 0.05% set value $\pm$ 4uA	Max. load 1K $\Omega$ at 20mA. Note: power supply range: 5 ~ 25VDC
Loop Power Supply	24V			$\pm$ 10%	Max. output current up to 25mA



Voltage and Current Process Calibrator.

Input Performance Index (applicable to temperature range from 18°C to 28°C, within one year after calibration)

Input	Range	Output Range	Resolution	Accuracy	Remark
Voltage	28V	-0.200 ~ 28.000V	1mV	±0.02% reading±2mV	Input resistance about 1MΩ
Current	20mA	-1.000 ~ 22.000mA	0.001mA	±0.02% reading±4uA	resistance about 20Ω
Loop Current	20mA	0.000 ~ 22.000mA	0.001mA	±0.02% reading±4uA	providing 24V loop power