

# 513B/520A

CALIBRATOR / CHECKER

## 513B Precision calibrator



## 520A Variable checker



- High precision calibrator that can generate wide range of pseudo output.

513B calibration output of each range is expressed as mV/V.  
Below chart shows equivalent strain at "G.F. (Gauge factor) = 2.0"

Range	Equivalent strain
0.25 mV/V	500 $\mu$ -STRAIN
0.5	1000
0.75	1500
1	2000
1.5	3000
2	4000
2.5	5000
3	6000

Note) Specification of mV/V does mean the sensor outputs voltage in mV per 1 V excitation voltage.  
Therefore, Rated output from a sensor of "Rated output = 2 mV/V" with 10 V excitation voltage is 20 mV.

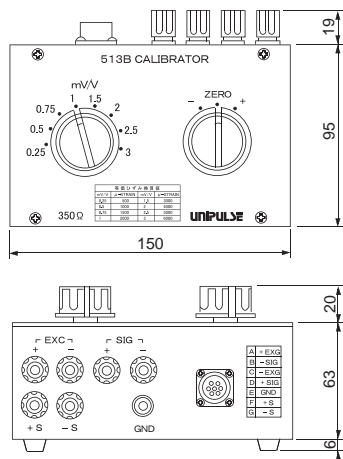
- Continuously variable checker in the range of 0 to  $\pm 3$  mV/V

### Specifications

Input resistance	350 $\pm 2\%$
Output resistance	350 $\pm 2\%$
Calibration output value	0.25, 0.5, 0.75, 1, 1.5, 2, 2.5, 3 mV/V
Polarity	+, -, ZERO
Error	Within $\pm 0.01\%$ of each range
Gain drift	$\pm 5$ ppm/ $^{\circ}$ C
Excitation voltage	DC 10 V (DC 15 V max.)
External dimension	150(W) x 95(H) x 63(D) mm (not including projections)
Weight	Approx. 800 g
Operation condition	Temperature: $-20$ to $+60^{\circ}$ C Humidity: 80% RH or less (non-condensing)
Attachment	(6-wired) cable with PRC connector at both end 1 m.....1
Optional accessories	CA4230: JR-PRC (6-wired) conversion relay cable 0.3 m

\* At the above-mentioned specification use of cable of attachment

### External dimension

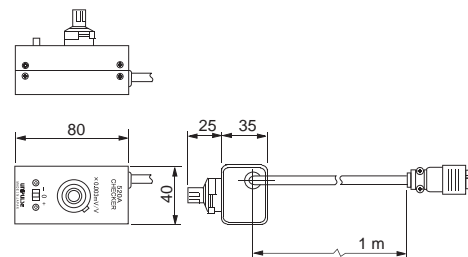


Unit: mm

### Specifications

Input resistance	Approx. 325
Output resistance	Within 100
Polarity	+, -, ZERO
Output voltage	0 to 3 mV/V (Helical potentiometer with dial)
Error	0.3%+0.02 mV/V (to the dial reading value)
Excitation voltage	DC 15 V max.
External dimension	40(W) x 80(H) x 35(D) mm (not including projections)
Weight	Approx. 250 g
Attachment	PRC (4-wired) conversion relay cable 1 m End treatment 5 leads.....1
Optional accessories	CA4311: JR-PRC (6-wired) conversion relay cable 1 m (4-wired to 6-wired)

### External dimension



Unit: mm