

# 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
0.25mV/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 1V excitation voltage.  
Therefore, Rated output from a sensor of "Rated output = 2mV/V" with 10V excitation voltage is 20mV.

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

#### Specifications

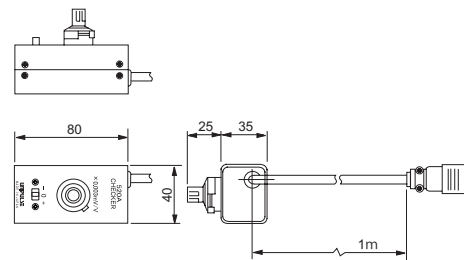
Input resistance	Approx.325 $\Omega$
Output resistance	Within 100 $\Omega$
Polarity	+, -, ZERO
Output voltage	0 to 3mV/V(Helical potentiometer with dial)
Error	0.3%+0.02mV/V (to the dial reading value)
Excitation voltage	DC15Vmax.
External dimension	40(W) $\times$ 80(H) $\times$ 35(D)mm(not including projections)
Weight	Approx.250g
Attachment	PRC (4-wired) conversion relay cable 1m End treatment 5 leads.....1
Optional accessories	CA4311 : JR-PRC (6-wired) conversion relay cable 1m (4-wired to 6-wired)

#### Specifications

Input resistance	350 $\Omega$ $\pm$ 2%
Output resistance	350 $\Omega$ $\pm$ 2%
Calibration output value	0.25, 0.5, 0.75, 1, 1.5, 2, 2.5, 3mV/V
Polarity	+, -, ZERO
Error	Within $\pm 0.01\%$ of each range
Gain drift	$\pm 5$ ppm/ $^{\circ}$ C
Excitation voltage	DC10V(DC15Vmax.)
External dimension	150(W) $\times$ 95(H) $\times$ 63(D)mm(not including projections)
Weight	Approx. 800g
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 1m.....1
Optional accessories	CA4230 : JR-PRC (6-wired) conversion relay cable 0.3m

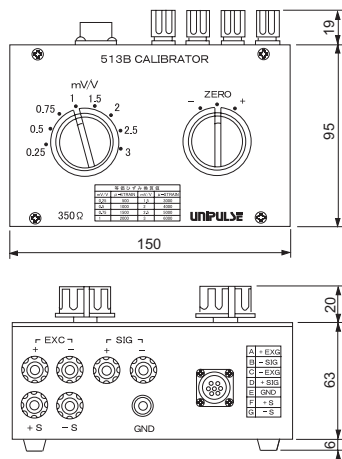
\*At the above-mentioned specification use of cable of attachment

#### External dimension



Unit: mm

#### External dimension



Unit: mm