

Series **STB**

BOTTLE CAP TORQUE SENSORS

Reference Guide

GENERAL

The sensor is shipped ready to use. No assembly is required.

Carefully remove the unit from its packaging and inspect for any damage.

Series STB bottle cap torque sensors work in conjunction with the BGI force/torque indicator for instantaneous, average, and peak torque measurements. Simply plug the 15-pin connector into the external sensor connector on the indicator. Place the sample on top of the sensor and tighten the grips. Then proceed with the desired test.

Please note that all calibration data and menu selections programmed and saved during setup with the BGI are saved within the sensor. While this allows for interchangeability, each sensor must be programmed separately.

The sensor can be mounted onto a workbench if required using the four #10-32 holes on the bottom of the unit.

In order to extend the life of your torque sensor, avoid repetitive shock and impact loading.

DIMENSIONS AND SPECIFICATIONS

In [mm]

Model	Capacity x Resolution	Safe Overload % of Capacity
STB10Z	10 x 0.01 ozin, 7 x 0.005 kgFmm, 7 x 0.005 Ncm	300
STB20Z	20 x 0.02 ozin, 14 x 0.01 kgFmm, 14 x 0.01 Ncm	
STB50Z	50 x 0.05 ozin, 36 x 0.05 kgFmm, 35 x 0.05 Ncm	
STB12	12 x 0.01 lbin, 140 x 0.01 kgFmm, 135 x 0.01 Ncm	150
STB50	50 x 0.05 lbin, 580 x 0.5 kgFmm, 570 x 0.5 Ncm	
STB100	100 x 0.1 lbin, 1150 x 1 kgFmm, 1150 x 1 Ncm	

Accuracy: $\pm 0.7\%$ FS + BGI

Operating conditions:

Temperature: 40°F - 110°F [5°C - 45°C]

Humidity: 96% max. (no condensation)

in [mm]

