

● LaserGauge TS800 Sensor



TS800 Sensor

The **TS800 USB** sensor is specifically designed for inspecting and measuring small features in hard-to-access areas. Applications include edge radius, break angles, chamfer angle and length, gap/flush, step height and other measurements where accessibility to the feature is limited.



As with the other LaserGauge® USB sensors, a high-resolution imager captures the 2D surface profile and transfer it to a PC or to the LG5000 controller for processing and display.

Operating Features

■ **Design** – The TS800 is the smallest, most compact sensor in the LaserGauge® product offering. The unique removable standoff guides the user for correct alignment to ensure accurate measurement. The sensor's small size, light weight, reduced footprint and narrow tapered stem gives it access to highly restricted areas.

■ **High Resolution** – With a horizontal scanning resolution of around $8\mu\text{m}$ (0.0003") and a depth accuracy of around $\pm 6\mu\text{m}$ (0.00025") in the around 13mm (0.5") field-of-view (FOV) model, the sensor is ideal for measuring the smallest of features. The TS800 is available in a around 13mm (0.5") or around 25mm (1.0") field-of-view (FOV).



■ **Configuration Software** – A powerful, Windows™ based software program, LGcommander, is used to configure the sensor and run the algorithm. Scans are displayed in real time and can be saved automatically. Setups, user rights and operational preferences can be safeguarded under passwords, and certification of the gauge for a specific application can be managed the LGCommander software or with an LG5000 controller.

■ Type	▶ DSP – Handheld
■ Size	▶ 44,45mm (1,75") x 66mm (2,6") x 165mm (6,5") (w/h/l)
■ Weight	▶ 0,18 Kg (6.5 oz.)
■ User Interface	▶ 2 sets of 3 feedback LED's
■ Cabel Length	▶ USB 2.0A zu 5-Pin USB Stecker, 1,8 mtr. (6')
■ FOV Options	▶ ca. 13mm (0,50") ca. 25mm (1")
Horizontal Scanning Resolution	ca. $8\mu\text{m}$ (0,0003")
Depth Accuracy	ca. $\pm 12\mu\text{m}$ (0,00025")

