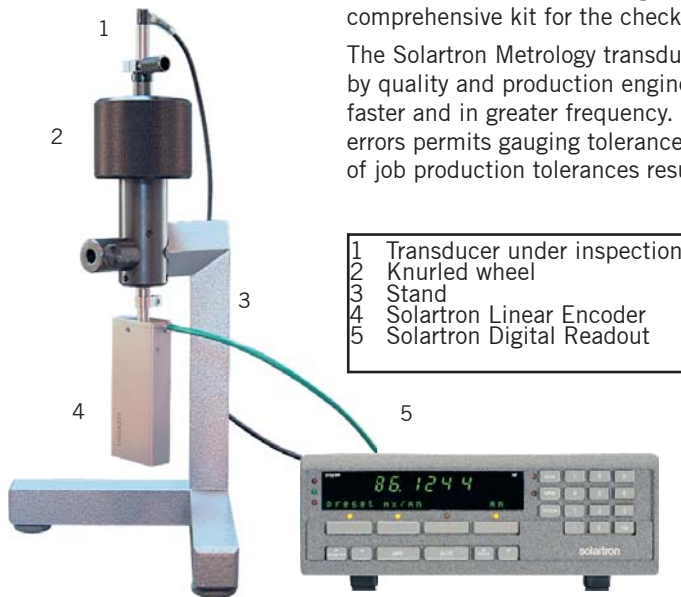


# Calibrator Kit

## For checking and inspecting the readings from a linear transducer



- |   |                             |
|---|-----------------------------|
| 1 | Transducer under inspection |
| 2 | Knurled wheel               |
| 3 | Stand                       |
| 4 | Solartron Linear Encoder    |
| 5 | Solartron Digital Readout   |

The calibration fixture pays for itself by;

- ▶ increasing the volume of 'in tolerance' work
- ▶ ease of operation
- ▶ augmenting the usefulness of expensive electronics that often do not enjoy full utilisation

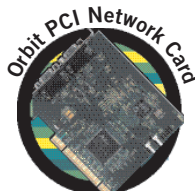
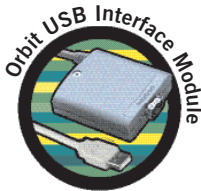
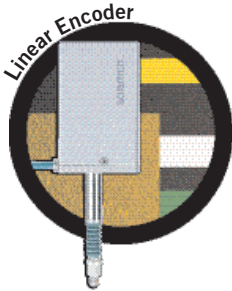
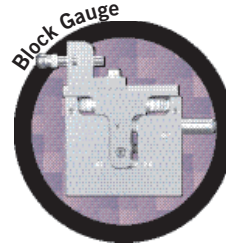
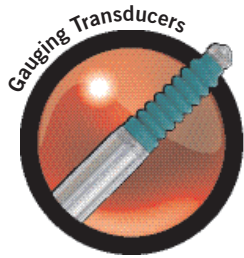
The design of the Solartron Calibrator is fully in accordance with Abbe's principle. A hardened plug, supported concentrically in the body of the fixture, is displaced axially by the means of a special purpose thread and ball assembly and actuated by a knurled wheel (2). This assembly ensures absolute proportional uniformity of displacement of the spindles (plungers) in measuring probe (4) and in the dial gauge being inspected (1).

The easily portable, sturdy stand (3) has been especially designed to be used in a vertical or horizontal inspection position. The body portion can be moved up or down within the fixture by loosening the socket head screw in the face of the stand. The body may be inverted by pulling off the lower split collet.

### How To Use

- ▶ rotate the knurled wheel (2) until it is close to the lower stop
- ▶ lock the measuring probe (4) in the lower split collet with the spindle fully depressed
- ▶ lock the transducer to be inspected (1) in the upper split collet
- ▶ set digital display (5) to zero
- ▶ rotating the knurled wheel (2), advance the position of the transducer under inspection (1) by the amount of travel to be inspected and read the amount of actual travel from the Linear Encoder (4). Or, advance the Linear Encoder (4) by the amount of travel to be inspected and compare this to the reading on the transducer under inspection (1)
- ▶ enter the reading into inspection certificate (or actuate printer if fitted)
- ▶ inspect inward and outward displacement to check for hysteresis

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