



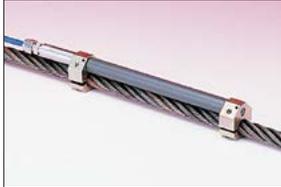
Model 4400 Embedment Jointmeter

The Model 4400 Embedment Jointmeter is designed for use across construction joints such as those between adjacent blocks in a concrete dam. It is normally embedded across the joint to monitor the expansion or contraction of the joint. The use of internal universal joints allows for a degree of shearing motion.

Specifications

Ranges ¹	12.5, 25, 50, 100 mm
Resolution	0.025% F.S.
Accuracy ²	±0.1% F.S.
Nonlinearity	< 0.5% F.S.
Temperature Range ¹	-20 °C to +80 °C
Dimensions (L × Ø)	441, 441, 441, 569 × 51 mm (flange)

¹Other ranges available on request. | ²Transducer accuracy established under laboratory conditions.



Model 4410 Strandmeter

The Model 4410 Strandmeter is designed to measure strains in tendons and steel cables. Two clamps at each end of the strandmeter hold it firmly onto the cable. Various size clamps are available.

Specifications

Ranges ¹	3 mm (15,000 µε)
Resolution	< 5 µε
Accuracy ²	±0.1% F.S.
Nonlinearity	< 0.5% F.S.
Temperature Range ¹	-20 °C to +80 °C
Dimensions (L × W)	203 × 45 mm (clamp width)

¹Other ranges available on request. | ²Transducer accuracy established under laboratory conditions.



Model 4420 Crackmeter

The Model 4420 Crackmeter is intended to measure movement across surface cracks and joints. It is installed by grouting, bolting or bonding two threaded anchors (with ball joints) on opposite sides of the crack and then attaching the ends of the gauge to the anchors.

Specifications

Ranges ¹	12.5, 25, 50, 100, 150 mm
Resolution	0.025% F.S.
Accuracy ²	±0.1% F.S.
Nonlinearity	< 0.5% F.S.
Temperature Range ¹	-20 °C to +80 °C
Dimensions (L × Ø) ³	318, 343, 397, 555, 645 × 8 or 12.7 mm ⁴ (shaft)

¹Other ranges available on request. | ²Transducer accuracy established under laboratory conditions.

³Length dimensions are in mid-range position. Coil diameter is 25 mm. | ⁴12.7 mm for 100 and 150 mm ranges.



Model 4422 Micro Crackmeter

The Model 4422 is a miniature crackmeter intended to measure displacements across surface cracks and joints. It has been specially designed for applications where access is limited and/or where monitoring instrumentation is to be as unobtrusive as possible (e.g. on historical structures or buildings).

Specifications

Range	4 mm (±2 mm)
Resolution	0.001 mm
Accuracy ¹	±0.1% F.S.
Nonlinearity	< 0.5% F.S.
Temperature Range ²	-20 °C to +80 °C
Dimensions (L × Ø)	120 × 8 mm

¹Transducer accuracy established under laboratory conditions. | ²Other ranges available on request.



Model 4425 Convergence Meter

The Model 4425 Convergence Meter is used to monitor closures in underground excavations, tunnels, etc. It is comprised of a spring tensioned transducer, turnbuckle, connecting rod (stainless steel, fiber-glass or graphite), rod clamp, and a pair of stainless steel eyebolts.

Specifications

Ranges ¹	12.5, 25, 50, 100, 150 mm
Resolution	0.025% F.S.
Accuracy ²	±0.1% F.S.
Nonlinearity	< 0.5% F.S.
Temperature Range ¹	-20 °C to +80 °C
Dimensions (L × Ø)	varies with application × 25 mm (transducer)

¹Other ranges available on request. | ²Transducer accuracy established under laboratory conditions.



Model 4430 Deformation Meter

The Model 4430 Deformation Meter with flanged ends is designed to measure longitudinal deformation in dams and embankments. It can also be grouted or held in place by hydraulic anchors to measure deformations in boreholes (over the gauge length). Gauge lengths from 0.5 to 100 meters are available.

Specifications

Ranges ¹	25, 50, 100, 150, 300 mm
Resolution	0.025% F.S.
Accuracy ²	±0.1% F.S.
Nonlinearity	< 0.5% F.S.
Temperature Range ¹	-20 °C to +80 °C
Dimensions (L × Ø)	1 m, varies × 27 mm (pipe), 51 mm (flange)

¹Other ranges available on request. | ²Transducer accuracy established under laboratory conditions.



Model 4435 Soil Extensometer

The Model 4435 Soil Extensometer is designed to be installed, in series, to measure horizontal strain in earthfill or rock-fill dams. The 4435 has flanges on either end, which enable a series of extensometers to be bolted together to form long strings of sensors, which allow complete profiles of deformation or settlement to be monitored.

Specifications

Ranges ¹	25, 50, 100, 150, 300 mm
Resolution ²	0.025% F.S.
Accuracy ³	±0.1% F.S.
Nonlinearity	< 0.5% F.S.
Temperature Range ¹	-20 °C to +80 °C
Dimensions (L × Ø)	varies × 27 mm (pipe), 33 mm (slip coupling)

¹Other ranges available on request. | ²Resolution depends on readout equipment.

³Transducer accuracy established under laboratory conditions.