Tilt Beam

## Description

MEMS Tilt Beams measure differential movements in structures and consist of a MEMS sensor mounted on a rigid, fibreglass beam. The beam is mounted on anchor bolts set into the structure. They can be installed on any structure by joining together lengths of beams and are extremely accurate in generating movement profiles over long distances. Readings are taken with a manual readout by connecting at the end of the single cable linking all the bussed beams, or with a data logger at a remote monitoring station. Site specific, near-real time monitoring software is available.

## TILT BEAM SPECIFICATIONS

### ITEM

Range Resolution (digital) Resolution (analog) Non-linearity (digital)

Non-linearity (analog)

Repeatability (digital) Repeatability (analog)

Sensor

Operating Temp.

#### **SPECIFICATION**

±30° ±0.0002° (0.004 mm/m)<sup>1</sup> ±5 arc sec. (±0.025 mm/m) (10Hz BW) ±0.0125% F.S. (±0.002°) (0.03 mm/m)

±0.05% F.S. (±0.0075°) (0.13 mm/m)

±0.0125% F.S. (±0.002°) (0.03 mm/m) ±0.025% F.S. (±0.004°) (0.06 mm/m) MEMS (Micro-Electro- MechanicalSystems) Accelerometer, Uniaxial -40 to 60°C (-40 to 140°F)

# FIBREGLASS BEAM (MOUNTING BRACKETS INCLUDED)

ITEM

Beam Dimensions Gauge Length SPECIFICATIONS SPECIFICATION

51 X 51 mm (2 X 2 in.) 1, 2 or 3 m (3, 5, 10 ft.)