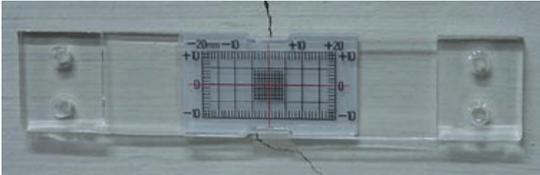


# AVONGARD CRACKMETER

## AVONGARD TELL-TALES

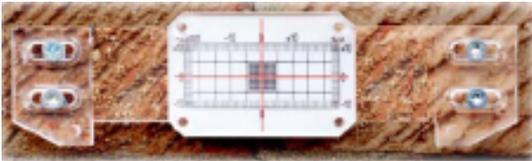
Precision gauges that consist of two plates which overlap for part of their length. The bottom plate is calibrated in millimeters and the top plate is transparent and marked with a red hairline cursor in the form of a cross. The tell-tales are fixed perpendicular to a crack and as the crack opens or closes, one plate will move relative to the other. The relationship of the cursor to the calibration represents the amount of movement occurring.

## STANDARD TELL-TALE



A basic Tell-Tale (pictured above) monitors horizontal or vertical movement across a crack to an accuracy of 1.00mm.

## TELL-TALE 'PLUS'



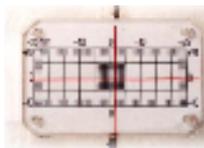
Similar to a standard Tell-Tale but with monitoring spigots incorporated in the tell-tale which enable exact measurements to  $\pm 0.1\text{mm}$  with calipers supplied by Avongard.

## Fixing

The Tell-Tales are fixed with screws and adhesive across the crack to be monitored. The Tell-Tale is supplied pre-set at zero. After fixing, the temporary plugs are removed allowing each plate to move independently of one another.

## Crack Monitoring MONITORING TO $\pm 1.00\text{mm}$ ACCURACY

As the crack opens or closes, or if vertical movement occurs, the cursor moves relative to the calibration scale. The opening or closing of the crack is then recorded on the record card supplied.

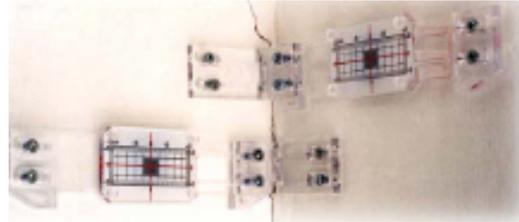


## MONITORING TO $\pm 0.1\text{mm}$ ACCURACY



For more accurate monitoring, Vernier, Dial or Digital Calipers can be used to measure the distances between the monitoring spigots. The distance between the spigots is recorded on the record card supplied with each Tell-Tale.

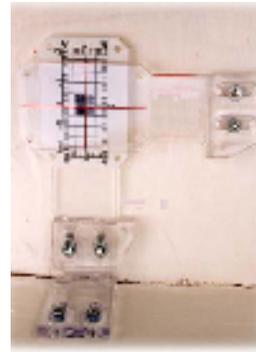
## CORNER TELL-TALE PLUS



Monitors cracks in corners. Use singly to monitor two dimensional movement; Use in pairs to monitor three dimensional movement. May be used in internal or external corners.

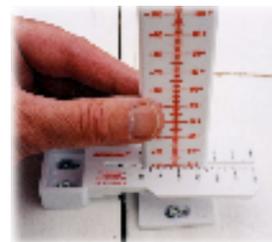
The Tell-Tale is hinged enabling it to be used in internal corners with angles from 70 to 180 degrees.

## FLOOR TELL-TALE PLUS



The components of the Corner Tell-Tale Plus can be reconfigured so that the cracks at the junction of ceilings and walls or floors and walls can be monitored

## DISPLACEMENT TELL-TALE PLUS



A Tell-Tale that monitors displacement and horizontal movement where there is a 'step' across the crack due to displacement or 'out of plane' movement

## Product Description of the Tell-Tales

- Suitable for both internal and external use
- Record cards supplied with each Tell-Tale
- Calibrated in millimeters
- Capable of monitoring horizontal or vertical movement
- Manufactured in vandal resistant polycarbonate (Plus) or acrylic (Standard)
- Co-efficient of thermal expansion:  $7.0 \times 10^{-5} \text{ cm/cm}^\circ$  Centigrade for temperatures between  $-30^\circ$  to  $+30^\circ\text{C}$
- Manufactured to conform to BS EN ISO 9002:1994

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# AVONGARD CRACKMETER

## PRECISION CRACK MONITORING WITH THE STAINLESS STEEL CALIPERS

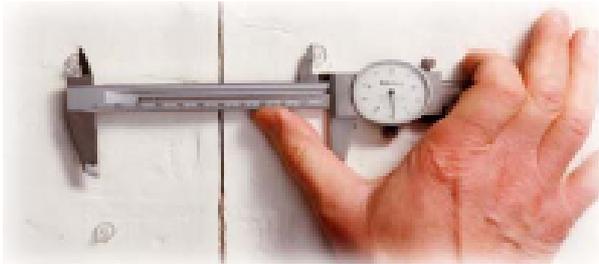
Fine resolution monitoring can be achieved using high precision calipers to measure the distances between a datum fixed either side of the crack. Stainless steel discs, brass screws or polycarbonate. Avonmarks can be used as datum points either side of the crack.

### Digital Electronic Caliper Set Measuring a pair of 6.3mm Stainless Steel Monitoring Discs.



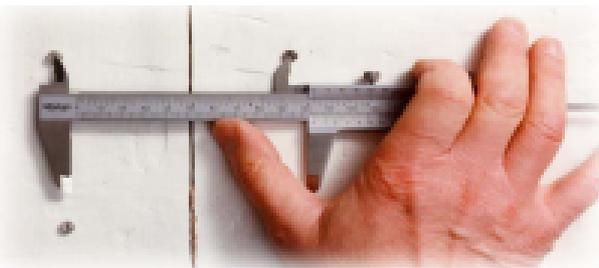
This electronic caliper set is calibrated to 0.01mm and 0.0005ins. 6.3mm Stainless Steel Discs are sold in packs of 100.

### Dial Caliper Set Measuring a pair of Avonmarks.



This dial caliper set is calibrated to 0.05mm. Avonmarks are sold in packs of 100.

### Vernier Caliper Set Measuring a pair of 6.3mm Stainless Steel Monitoring Discs.



Calibrated to 0.02mm and 0.001 ins. 6.3mm Stainless Steel Monitoring Discs are sold in packs of 100.

## Fixing

Either stainless steel discs or Avonmarks may be used with the digital, Dial or Vernier Calipers. The Discs or Avonmarks are fixed with the plastic padding about 80 to 100mm on either side of the crack to be monitored. The line of the Discs or the Avonmarks should be perpendicular to the crack, and the plastic padding should be thoroughly hardened before taking the first reading.

## Monitoring

- The distance between the Discs or the Avonmarks is measured and recorded on the Record Card
- The rates and trends of movement become apparent as subsequent readings are taken
- Monitoring to +/- 0.1mm is sufficiently accurate for most building structures

## Monitoring Cracks in Corners

Cracks in corners can be monitored using Avoncorner discs either fixed with screws and rawplugs or plastic padding. Avoncorner discs are either used singly to monitor two dimensional movement or in pairs (as shown) to monitor movement in three dimensions



## ACCURATE CRACK MEASURING WITH THE AVONGARD CRACK WIDTH GAUGE

Prior to monitoring the cracks, the widths and location of the cracks are measured. The Avongard Crack Width Gauge is specifically designed for this purpose.

## Crack Measuring

- Select a location where the edges of the crack are reasonably straight and parallel
- Hold the gauge in contact with the crack at right angles across the crack
- Align the gauge where the calibration and the crack are the same width
- Record the width, length and location of the crack
- The scale at the bottom of the gauge may be used to measure crack widths greater than 7mm and cracks in awkward locations



## Product Specification

- Manufactured in rigid durable acrylic or polycarbonate
- Supplied in an ever ready case.
- Calibrated to the edge scale which simplifies crack measurement in corners and awkward locations.
- Suitable for internal or external use.
- Manufactured to conform to BS EN ISO 9002:1994 (Specification subject to change without notice)

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