



# INSTRUCTION MANUAL

## PORTABLE FISSUROMETER

### Model PF8

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This product should be installed and operated only by qualified personnel. Its misuse is potentially dangerous. The Company makes no warranty as to the information furnished in this manual and assumes no liability for damages resulting from the installation or use of this product. The information herein is subject to change without notification.

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# 1 DESCRIPTION

The model PF8 Fissurometer is designed to measure relative displacement between reference studs. Its applications include:

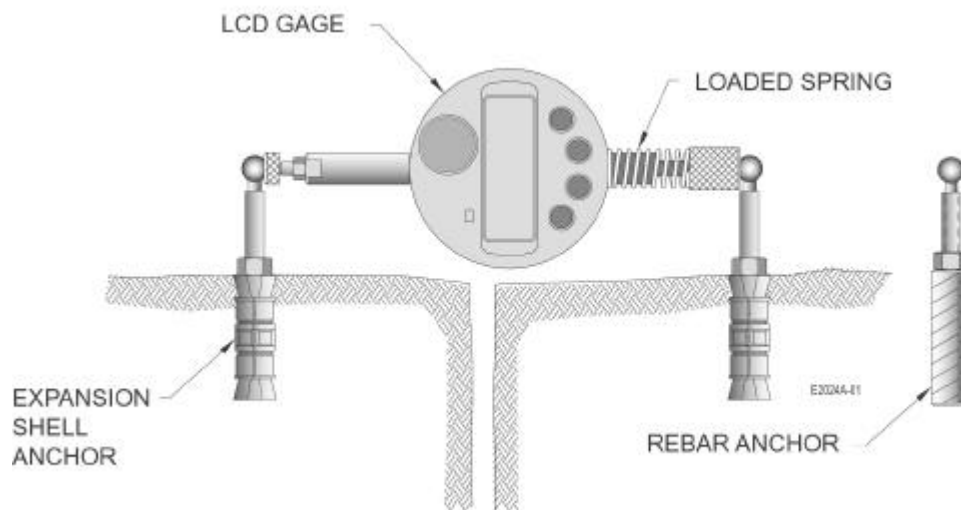
- monitoring of superficial movements across cracks in rock or concrete;
- measuring the movements of construction joints in concrete;
- monitoring deformation cracks in brick, masonry, concrete or wooden structures.

The PF8 Fissurometer is available in two versions: **PF8-1D** and **PF8-3D**.

The **PF8** consist of

- A dial gage (or LCD gage) with extension bars to be fixed between reference points
- A stainless steel jig for reference point installation
- A reference frame to validate sensor reading
- Reference points : 8-mm diameter balls mounted on rods to be anchored

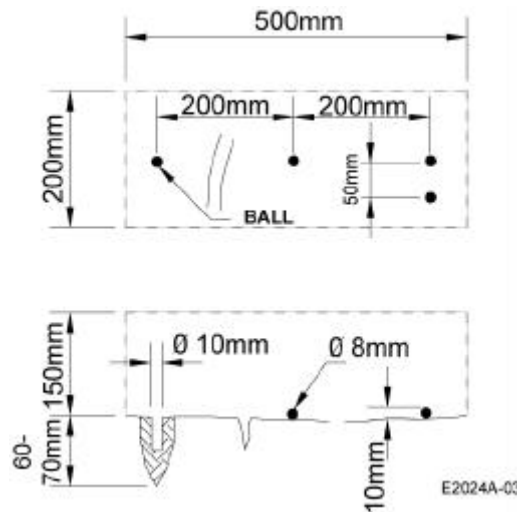
The **PF8-3D** enables the measurement of movements in three orthogonal directions. It comprises four spherical references that are anchored astride the cracks/joints. Distance between these references is measured using two mechanical devices fitted with dial gages (or LCD gages).



**Model PF8-1D with an LCD Gage**

## 2 INSTALLATION AND READINGS

The reference points are precisely located across the separation to be monitored using an installation jig. Anchors are installed and the reference points are fixed in place. The span of the PF8 is set in accordance with the installation jig span allowing the PF8 to be used at each measuring location without prior adjustment. Once the span length is read, the user can calculate the variation between the two points by comparing the new reading against the initial reading. Temperature readings may also be taken allowing the user to compensate for thermal expansion (correction factor for thermal expansion is approximately  $17 \times 10^{-6}$  for 1 Celsius degree).



Installation of the PF8-3D

