

# Elcometer 1970 PFCV - Portable Field Calibration Verification Unit



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For use with the Elcometer PAT™ Range, Elcometer 106, and Elcometer 108 Adhesion Testers, this Portable Field Calibration Verification Unit is the ideal gauge for confirming your adhesion gauge calibration.

Connect the appropriate pull stub to the unit, pull your adhesion tester and compare the adhesion tester reading to the reading on the Portable Calibration Unit's Display.

## Adhesion

From the largest man-made structures to the smallest household appliances, most manufactured products have a protective or cosmetic coating. Premature failure of this coating can, at the very least, result in costly penalties or rework.

Adhesion testing during the coating process will quantify the strength of the bond between substrate and coating, or between different coating layers or the cohesive strength of some substrates. Routine testing is also used as part of inspection and maintenance procedures to help detect potential coating failures.

Elcometer offer a highly comprehensive range of Adhesion Gauges designed specifically to meet your requirements. These gauges can be split into three categories:

### Cross Hatch / Cross Cut Method

The coating is cut into small squares, thereby reducing lateral bonding, and the adhesion assessed against ISO, ASTM or Corporate Standards

### Pull Off Adhesion Method

Tensile Dollies (or stubs) are glued to the coating and, once the adhesive has cured, the force required to pull the dolly off the surface is measured.

### Push Off Adhesion Method

Similar to the Pull Off Adhesion Test, a dolly is glued to the coating, once the adhesive has cured, however, the dolly is pushed off the surface by the adhesion gauge.

## At a glance

- A field verification unit for checking the adhesion gauges calibration.
- Stand alone unit - no power required.

<b>Calibration Range</b>	0 – 17MPa (5.3kN) on 20mm (0.79") diameter dolly
<b>Accuracy</b>	Within ±1% if full scale
<b>Instrument Weight</b>	2.4kg (5.3lb)

Model	Description	Part Number
Elcometer 1970	Elcometer 1970 PFCV Unit	K0001970M001
<b>Accessories</b>	Elcometer 106 Dolly Adaptor	KT001970P001
	Elcometer 108 Dolly Adaptor	KT001970P002

## Related products



Elcometer 106

Perhaps the best known adhesion gauge on the market today. The Elcometer 106 adhesion tester is easy to operate and fully portable, providing a numerical value for adhesion. Supplied in a rugged carry case for moving around the jobsite, the unit is hand operated so you don't have to worry about a power supply!



Elcometer 108

An extremely versatile hydraulic adhesion tester which will cope with many adhesion test requirements. Test can be made on flat or curved (concave and convex) surfaces. A reusable dolly is adhered to the coating's surface and the force required to push the dolly from the surface is applied using the handle. The value of the force applied is displayed either on a digital display or on an analogue dial.



Elcometer 1910

This lightweight, portable, hydraulic adhesion tester has built in hydraulic safety devices for smooth and drift proof accuracy. The special test head allows adhesion tests on both internal and external curved surfaces, making this an ideal gauge for pipelines and protective coatings applications.



Elcometer 1940

The most popular in the Elcometer PAT™ tester range, a manual hydraulic tensile adhesion tester for measuring the bond strength of all types of paints, thermal sprayed coatings, thin films, concrete coatings, ceramics, etc. A portable, precision gauge with both MPa and PSI readings which gives accurate and comparable test results both in the laboratory and on site.



Elcometer 1941

A 20 or 40kN manual hydraulic tensile adhesion tester for testing of coatings (including thermal sprayed coatings), on test panels, sprayed components. Designed for testing with 50mm (2") diameter test elements and with the square 50 x 50mm (2 x 2") test element for adhesion testing of tile adhesives and other cementitious materials.

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