



MFA-T4

Detecting the bending strain



P r e c i s i o n t e s t i n g o f l i n e a r s t r a i n

Operating range

From basis of the hand clamped extensometer MFA 2, this feeler version was designed to detect the bending strain at 3 respectively 4 point bending tests. For further measuring tasks with lack space, it is conceivable to use this device too.

The measuring arm of this device is 60 mm long and has maximum measured displacement of 4mm. For a respectable mounting at customer's side this device is delivered with an extended mounting bar (optionally modifiable).

Design and function

A lever mounted in ball bearings, which have been tensioned to prevent play, and housed in a casing of a high-strength aluminium alloy is used to take up the clamping forces. The path of the test elongation is transferred to the measuring spring through this lever. The measuring spring is applied with a temperature-compensated strain gauge full bridge, which is calibrated to 2 mV/V for the nominal measuring path.

Equalisation

1. Set the not deflected MFA – T4 in measuring position and adjust the amplifier to "Zero".
2. Push movable lever downwards to its lower stop.
3. Calibrate the measuring amplifier in this position to the value which is documented in the test specification sheet
4. To make sure that the calibration has been carried out correctly, repeat steps 1 to 4 and readjust if necessary.

Delivery scope

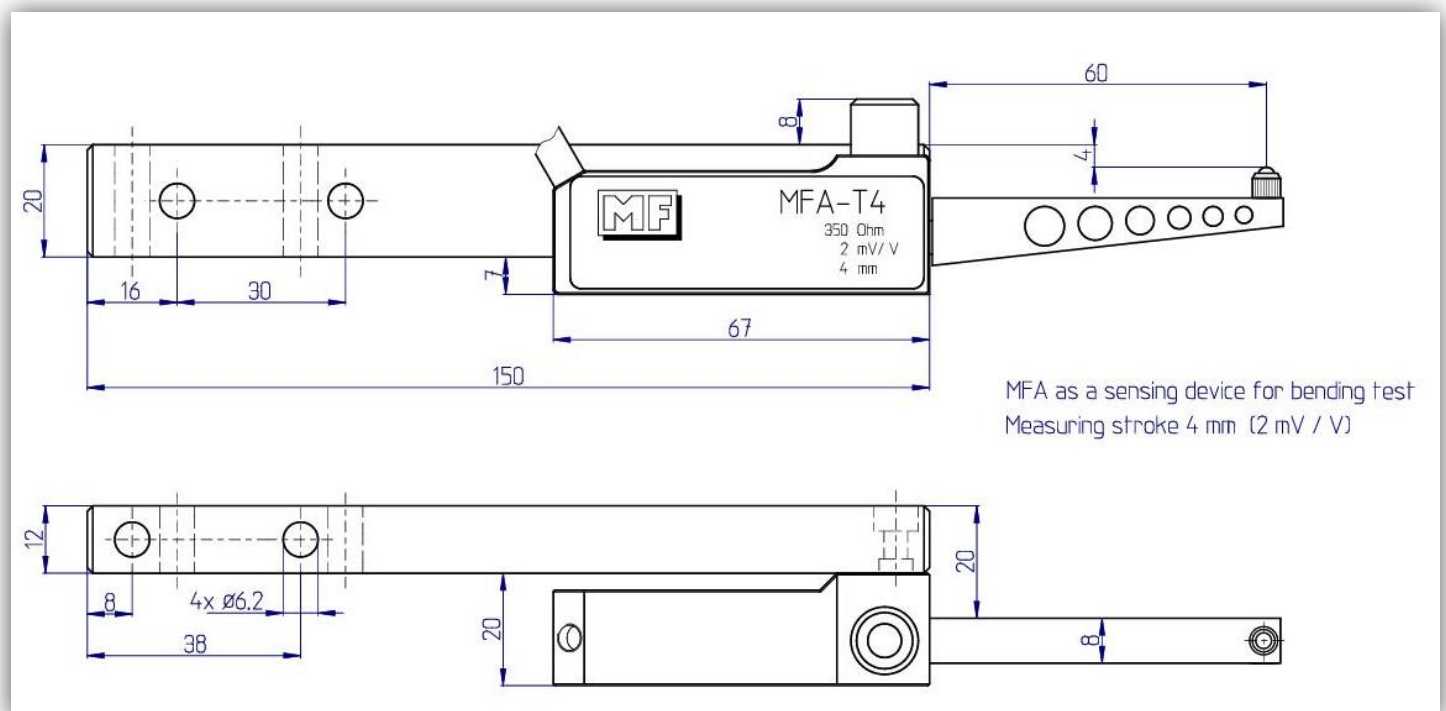
- 1 MFA 2 with 5 m cable
- 1 Test Specification Sheet
- 1 Storage case

Technical data

MFA-T4

Measuring path	4 mm
Accuracy class EN ISO 9513	0.5
Indication error *	0.5 %
Indication error *	1.5 µm
Sensitivity	2 mV/V
Rated resistance of bridge	350 Ohm
Weight	160 g

* The greater value is permissible



Picture 1: MFA-T4 - Dimensions