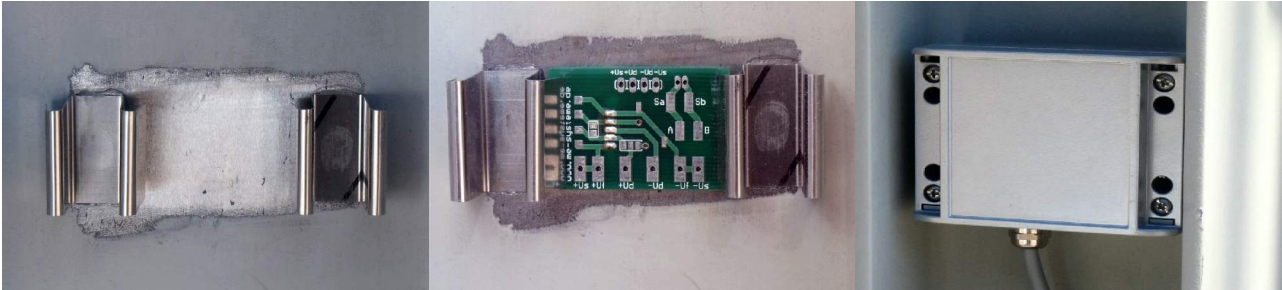


## DA120Clip

### Strain gage application in a few minutes

Precise measurement under rough conditions



### Description

The "DA 120 clip" system enables a quick, easy and IP 65 protected strain gage application. The system is composed of a carrier PCB, a diecast housing and two installation clips.

### Advantages

#### Time-saving installation

The adhesive technique saves elaborate tapping on steel beams and also the time-consuming wiring and sealing of the strain sensor. The integrated wiring layout and the particularly large soldering terminals make a fast and secure installation under field conditions possible. Installation time can be under 10 minutes.

#### Reactionless installation

Special, patented installation clips prevent retroaction on strain gage measurement and fix at the same time carrier PCB and housing.

#### Mechanical protection against environmental impact


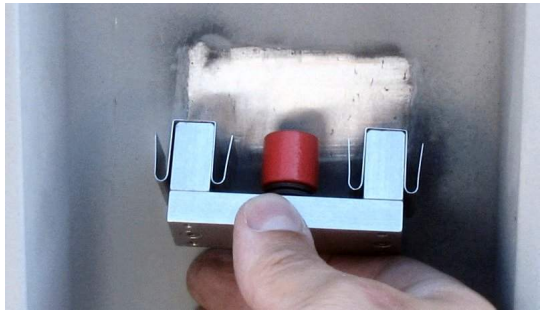
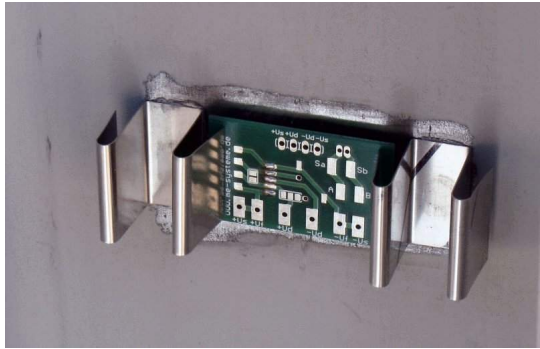
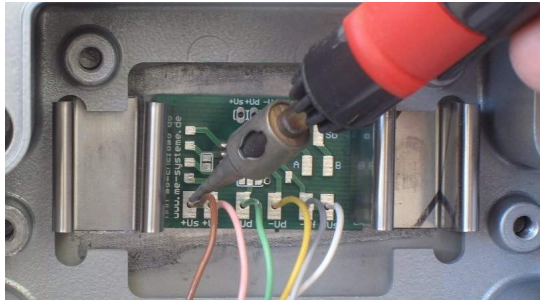
The IP 65 aluminum diecast housing with integrated strain relief ensures the necessary protection under difficult ambient conditions.

#### Ideal for security relevant components

No drillings are necessary, thus the system is apt for highly dynamically charged components where no notch effects are allowed to exist (e.g. railroad tracks).

#### Applications

Rails / tracks  
Crane / machine building

	<p><b>Surface preparation: (1 minute)</b> Removal of varnish and anticorrosive with a belt grinder.</p>
	<p><b>Gluing of the installation clips (1 minute)</b> The installation clips are glued directly to the medium by a special adhesive. With help of the magnetic tool the clips can be positioned optimal. During cure time (10 minutes) further clips can be applied.</p>
	<p><b>Gluing of the strain sensor (1 minute)</b> The strain sensor PCB is spread with special adhesive and the strain sensor can then directly be snapped into the installation clips.</p>
	<p><b>Fastening of the housing (1 minute)</b> The back side of the diecast housing is spread with silicone as a waterproof sealing. The housing is then shifted onto the installation clips until these lock in. Thereby the housing is fixed.</p> <p><b>Wiring (4 minutes)</b> The wiring map on the inside of the housing cover and the huge soldering terminals make wiring uncomplicated and trouble-free even under difficult conditions. With the cable conduit strain relief is achieved.</p>

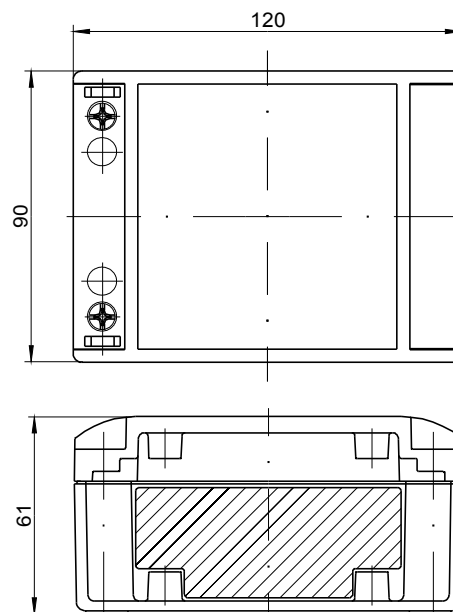
## Technical Data

Strain sensor	tension / compression	
Length × width × height	120 x 90 x 61	mm × mm × mm
Fastening of strain gage	adhesive, with clip fit-up aid	
Fastening of housing	adhesive, with clip fit-up aid	
Material of housing	aluminum	
Measurement range ( $\epsilon_N$ )	$\pm 0.1 \dots \pm 1000$	$\mu\text{m/m}$
Input resistance	$350 \pm 0.7$	Ohm
Output resistance	$350 \pm 0.7$	Ohm
Insulation resistance	$> 5 \cdot 10^9$	Ohm
Supply voltage	2.5...10	V
Connection 4 or 6 conductor	connecting cable not included	

## Pin Configuration

+Us	positive bridge supply	red	brown	
-Us	negative bridge supply	black	white	shield: transparent
+UD	positive bridge output	green	green	
-UD	negative bridge output	white	yellow	
+UF	positive sense		pink	
-UF	negative sense		gray	

## Dimensions



## Accessories

Tool with magnet; adhesive M-Bond 30; silicone Typ 732; connecting cable 3x2x0,25PUR;