SE 200.22
MEC - Load unit

Description

- **smart, communication-enabled component with measurement of force and loading angle**
- **Plug&Play: wireless and digital connection of components with automatic identification with position and alignment**

The design of trusses and bridges requires consideration of the subsequent loading. Various loads from the accessories or this load unit can be used to load the experimental setups within the MEC Line series.

The SE 200.22 load unit can be used for various experiments in combination with other accessories and is one of the smart, communication-enabled components. The load unit is mounted horizontally or vertically in the SE 200 mounting frame with a quick-release fastener at a free position. The experimental setup and mounting frame provide direct and wireless data transmission and power supply for the smart components.

The load unit is equipped with an electronic module. In experiments, the forces and loading angle are measured and displayed as a measured value both directly on the load unit and in the GUNT software. An integrated angle measurement is used to determine the installation position. Tensile and compressive forces can be generated steplessly in any direction. The use of extensions makes large ranges possible.

The GUNT software identifies the position and location of the installed load unit and reacts dynamically to changes. The visualisation in the software always corresponds to the actual experiment setup. The measured values are analysed in real time. The load unit is clearly laid out and well protected in a storage system.

Specification

[1] smart, communication-enabled component: load unit with electronic module for data acquisition and measured value display
[2] adjustment of angle and length depending on the loading task
[3] generation of tensile and compressive forces in any direction
[4] can be installed horizontally or vertically by means of a click system
[5] quick-release fastener for fast and safe installation in the SE 200 mounting frame, without cabling and freely positionable
[6] extensions included for large ranges
[7] automatic identification and assignment of the load unit during setup and experimentation
[8] measurement of force and loading angle, as well as angle measurement to determine the installation position
[9] measured values displayed directly on the load unit and in the respective GUNT software

Technical data

Load unit
- length adjustment: 75mm
- angle adjustment: 45...135°

2 Extensions
- length: 95mm
- length: 300mm

Measuring ranges
- force: 0...200N
- angle: 0...360°

LxWxH: 600x400x200mm (storage system)
Weight: approx. 5,7kg (total)

Required for operation

Accessories from the GUNT MEC Line series

Scope of delivery

1 load unit
2 extensions
1 storage system with foam inlay

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Required accessories

SE 200	MEC - Frame digital & smart
SE 200.01	MEC - Forces in trusses
or	
SE 200.08	MEC - Buckling
or	
SE 200.09	MEC - Deformation of frames