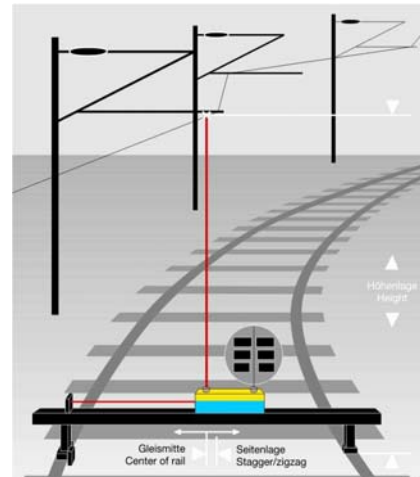


Catenary Measuring Instruments

Feinmess Dresden develops and manufactures catenary measuring instruments, also known as optical perpendiculars, for more than 40 years. They are used for the manual, contactless measurement of the catenary position.

Catenary height/ Catenary stagger



Our catenary measuring instruments, technically approved by the Deutsche Bahn AG, are used in electro technical constructions for the acceptance and inspection of catenary equipment. The static idle state of the catenary, the catenary height and the static catenary stagger (zig-zag run of the catenary) are checked relatively to the centre of rail.

Measurement of the catenary position

These instruments are used in railroad companies, in public transportation services, in tram lines as well as in railroad infrastructure companies. Installation, handling, building inspection and maintenance of catenary equipment require precision-portable measuring instruments with effectual particularities of measurements.

Catenary equipment/ Catenary of electrical tracks



Catenary workers use our measuring instruments for construction work. Often, re-adjustments and maintenance measures of catenary equipment is required. Furthermore, track alignment systems that are installed on test and measurement vehicles have to be aligned on reference positions. Therefore our catenary measuring instruments can be used for comparative measurements.

Rail engineering/infrastructure equipment

Catenary measuring instruments



Catenary measuring instrument FM3

- classical optical instrument
- to center the catenary in the reticle with circle mark
- measurement of the catenary stagger
- optionally available with laser-pointer or laser range meter for measuring the catenary
- higher accuracies (10mm height of the catenary/ 15mm stagger of the catenary)



Catenary measuring instrument FM1.4

- new design/ approved optics/ laser measurements
- optical eyepiece and integrated laser
- illuminated displays, night measuring devices
- electrical power supply, optional car charger
- handy, two-part measuring bars
- adjustable measuring bars for different gauges
- transportation in aluminium-cases and carrying bag



Catenary measuring instrument FM5

- digital target finder with 4-fold zoom and colour display
- wireless transmission of the measuring values via Bluetooth® on a PC or pocket-PC (in excel table)
- integrated sensor for track tilt measurement
- measurement of horizontal and vertical building distances (bridge heights, tower distances)
- for controls, acceptances, measurements, maintenance



Service

- inspections, new adjustments, repairs
- FMD-equipment generation / optical perpendiculars by AEG
- laser-retrofitting, replacement of measuring bars
- rent and hire equipment



Customized solutions

- special gauges, measuring ranges, scales, measurements
- measuring racks
- superelevation (incline in curves)
- measurement of track widths