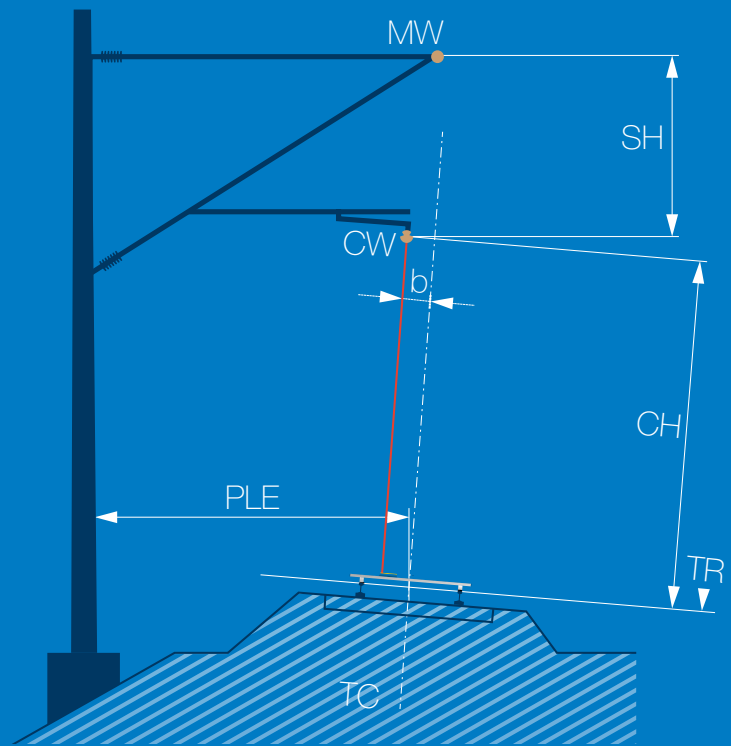


FM4-LO

Contact wire measuring device for height,
stagger and pole leading edge

Measurements

CW	Contact wire
CH	Contact wire height
b	Contact wire stagger
MW	Messenger wire
SH	System height
PLE	Pole leading edge – track center
TC	Track centerline
TR	Top of the rail



Versatile

Install catenary infrastructures faster

Inspect and maintain contact wires with minimal effort

Flexible, worldwide use in local and long-distance transportation

Application overview in local and long-distance transportation

As a German manufacturer of precision equipment, we have been simplifying contact wire measurements in railroad technology for more than 50 years. Our contact wire measuring devices (FM) are suitable for the installation as well as for the maintenance of contact wires in local traffic (DC) and long-distance traffic (AC).

The laser beam of the FM determines the position of the catenary in relation to the track center as well as from the top of the rail. This enables you to measure quickly and easily the:

- Contact wire height and stagger (zig-zag)
- Messenger wire height and stagger
- Bridge and tunnel heights, height of crossing power lines
- With accessories: Distance between pole leading edge and track center

Optional accessories

LED lighting device for measurements in the dark

Laser glasses for better visibility of the laser point

Carrying bags and power adapter for more comfort

Measuring bars for worldwide track gauges from 750 – 1676 mm

Edge configuration for distance measurement from the pole leading edge to the track center



Features FM4-LO

Laser Optics

In combination with the measuring bar, the measuring device can measure contact wire stagger on track gauges in the range of 750 - 1676 mm. The measurements can be performed quickly and in any weather condition.



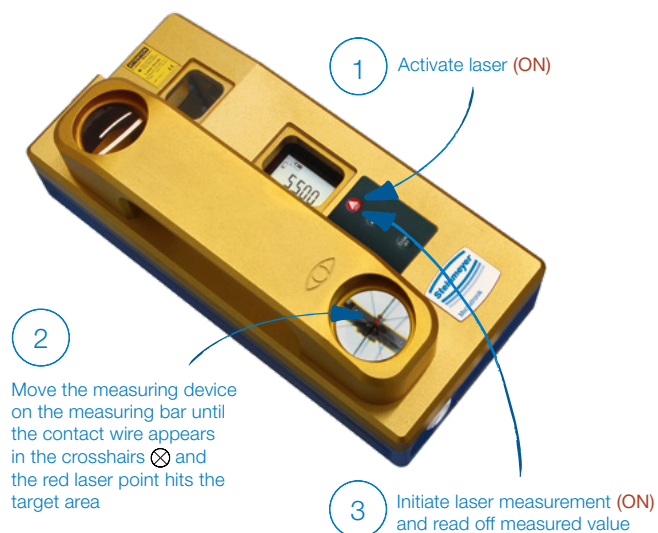
High-precision laser measurement with up to 1.5 mm measuring accuracy



Easy and fast detection of the contact wire by the target optics (crosshairs/laser beam)



Fast measurement due to easy and almost self-explanatory handling



Data sheet FM4-LO

Specifications		Basic	Standard	Edge
Contact wire measuring device FM4-LO				
Measuring range				
Contact wire height (laser)	up to 60 m (200 ft)	x	x	x
Contact wire stagger	± 700 mm (27.5 in)	x	x	x
Measuring accuracy				
Contact wire height (laser/system)	±1.5 mm (1/16 in) / ± 5 mm (1/5 in)	x	x	x
Contact wire stagger (system)	± 5 mm (1/5 in)	x	x	x
Horizontal distance measurement pole leading edge – track center (laser/system)	±1.5 mm (1/16 in) / ± 5 mm (1/5 in)	-	-	x
Laser/display				
Laser class (according to IEC60825-1)	2			
Laser power/wavelength	<1 mW / 635 nm			
Direction laser beam	vertical			
Display (automatically illuminated)	70 x 42 mm			
Operating modes	single / continuous measurement			
Operating time (number of measurements)	up to 4000			
Temperature range operation/storage	-10 ... +50 / -25 ... +70°C			
Automatic power switch off (laser)	90 s			
Automatic power switch off (display)	180 s			
Display unit (optional units)	0.000 m (0.000 ft / 0 in 1/32 / 0'00"1/32)			
Power supply				
Battery type (non-rechargeable)	2x AAA			
Protection class (DIN EN 60529)	IP64			
Dimensions		26 x 11 x 10 cm	26 x 11 x 10 cm	26 x 11 x 12 cm
Weight		2.3 kg	2.3 kg	2.5 kg
Measuring bar				
Adjusted to track gauge (further track gauges possible)	1435 mm (4' 8.5")	not separable	separable	separable
Measuring range	± 700 mm (27.5 in)			
Scale value	1 mm (1/8 in)			
Dimensions/weight	184 x 20 x 16 cm	4.7 kg	5.1 kg	5.1 kg
Accessories				
Aluminum transport case	54 x 16 x 25 cm / 3.3 kg	x	x	x
Mirror attachment and housing for horizontal distance measurement		-	-	x
Battery charger incl. 4 power adapters and batteries 2x AAA (rechargeable)		-	x	x
Laser glasses		-	x	x
LED lighting device		-	x	x
Carrying bag for separable measuring bar	105 x 28 x 18 cm	-	x	x
Shipping package				
Dimensions		197 x 37 x 37 cm	110 x 37 x 37 cm	110 x 37 x 37 cm
Weight		15 kg	18 kg	18 kg

Further accessories and measuring bars for diverse track gauges can be found online at: www.steinmeyer-railway.com



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