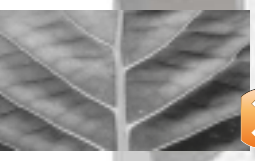
Vogel & Plötscher

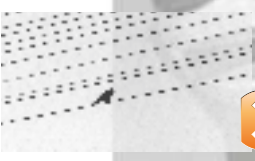
MessReg CDM

Track and switch measurement devices

Continuous digital measurement



Switch measurement



Track bed

Track gauge

Digital

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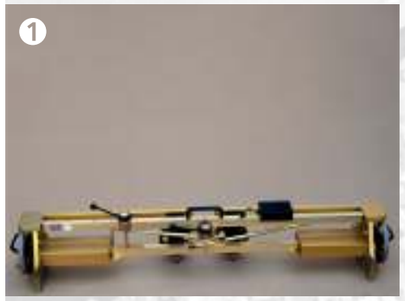


Ready to use within seconds

MessReg CDM: handy, intelligent, efficient

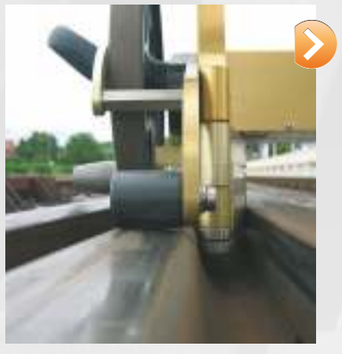
Measuring probe mechanism

In the area of digital track and switch inspections, MessReg CDM is the measure of things.

MessReg CDM provides a continuous measurement, that is, the required track values are recorded automatically every 5 mm. Thus track and switch inspection is not limited just to single measuring points anymore. With MessReg CDM the entire track/switch is monitored from the very beginning to its end.

The measuring device is easy to transport and can be operated by a single person. The superior design offers both, highest reliability and easy handling.

Construction, production and software development take place exclusively at Vogel & Plötscher (Breisach) in a close exchange with experienced practical users.



Attention to detail in developing smart solutions:

- measuring base with retraction mechanism: practical and space saving
- robust but lightweight design of aluminium making allows easy handling and transport
- slip-optimized wheels of high quality steel with special coating ensure reliable distance data
- constant pressurized measuring probes are continuously touching against the running edge.
- device insulation: no electrical connection can be made between the rails

Data capture and processing

The track gauge values are continuously captured by four measuring probes in accordance with the data from the inclination and distance sensors.
All information are recorded digitally and joined together in a specially designed electronic box. There the data are converted and sent to the MPC notebook for final saving. The MPC notebook is mounted on the top of the device and shows the incoming values in real-time.

Outdoor notebook MPC, IP 65 protected, shock proofed

The processing also includes:

- each value is assigned automatically to the belonging measuring point
- instand evaluation and display of tolerance exceedings
- independent evaluation of check rail gauge and back to-back distance
- user can enter all kind of remarks (i.e. track defects) during measuring

All track gauge and cant measurements are carried out automatically
The measurement values are assigned automatically to the defined measuring points in accordance with the recorded distance travelled. Apart from the starting point, no other measurement point needs to be confirmed manually.

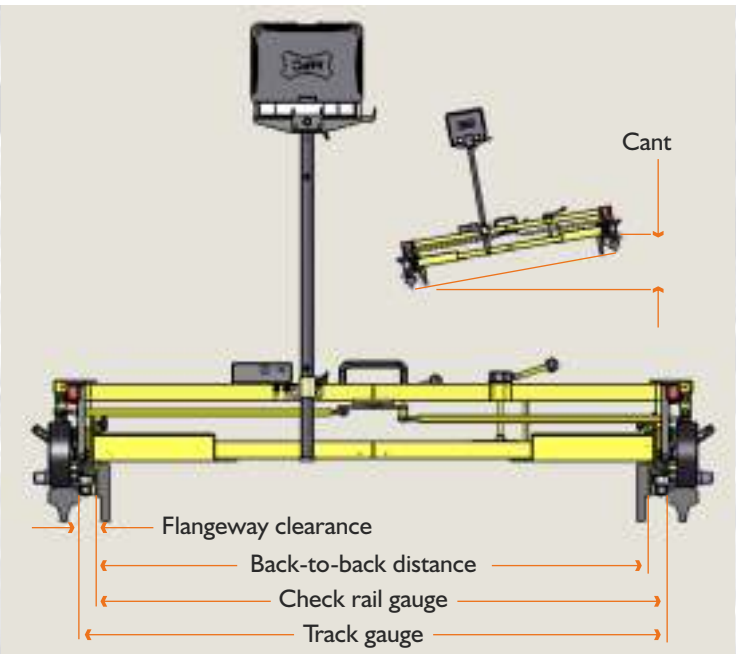
The starting point and the direction of measurement can be selected as required
In order to make the measuring process as flexible as possible, you can choose the measuring direction yourself.

The measurement process is stopped automatically after passing through the last measurement point
The measurement process is stopped automatically when the point defined as the last measurement point is passed.
The data is stored online in a binary file on the hard disk and becomes available after the measurement process is finished.

Customized remarks can be entered while measuring
The user can enter any comment or note at any time during the measuring process. Each comment is automatically assigned to the travelled distance and will become part of the measuring report, too.

Main track and diverted track can be measured independently
Switch measurements are divided up into main and diverted track. So there is no need to remove and replace the MessReg CDM between two consecutive switches.

Different interfaces for sharing / reporting of measuring data
In general all measuring data can be exported to MS Excel. Additionally other interfaces for commercial or customized software (MS Access, SAP) are available upon request.



Key features

Electronic digital measuring
Track gauge and cant values are recorded automatically every 5 mm

Time and cost saving
Up to 10 different parameters are recorded in one single measurement

Real-Time-Monitoring
Measuring values and exceeding are always displayed

Lightweight and smart design
Only one person needed for build-up and operation

Suitable to any type of switches
Switches and crossings can be passed through from both directions without objectives

Comprehensive software package
- **MessProfi,** the tried-and-tested software offers measurement data management including track system management, switch editor and standardized measurement reports. By default an interface for data export to Excel is supplied.
- **CDMviewer,** a powerful software tool for graphic analyses and reporting of the measuring data
- **CDMcatcher,** data capture programme for displaying, evaluation and saving with switch inspections
- **CDMline,** data capture programme for displaying and saving with track measurements

Measuring parameters*

	Measurement range	Resolution
Track gauge	1425 – 1475 mm	0,1 mm
Check rail gauge	1392 – 1403 mm	0,1 mm
Back-to-back distance	1349 – 1360 mm	0,1 mm
Flangeway clearance	22 – 54 mm	0,1 mm
Flangeway depth (option)	11 – 47 mm	0,1 mm
Cant	± 170 mm	0,1 mm
Distance	continuous	1 mm
Twist		
Calculated values		
Blade checks		

Technical data*

MessReg CDM (ready to use)

Length x width x height	955 x 1674 x 950 mm
Weight	24,0 kg

Measuring device case

Length x width x height	1730 x 440 x 460 mm
Weight	32,0 kg

Outdoor-Notebook MPC

Depth x width x height	216 x 271 x 49 mm
Weight	2,3 kg
Display	Touchscreen, 10.1" transflective XGA Active Matrix
Power supply	Li-ion battery (10.65V, minimum 5.4Ah)
Operating system	Microsoft Windows

** Note: All data are valid for nominal track gauge of 1435 mm. Other track gauge sizes are available on request.*

Vogel & Plötscher
Maß nehmen.

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