

DISOMAT[®] Tersus — HERMES Dynamic Axle Load Scales



- **Dynamic Weighing of Road Vehicles**
- **Automatic, Operator-Free Weighing with no Need to Alight or Stop**
- **Monitoring of Axle Loads and Overall Loads While Crossing**
- **Calculation of Weight and Speed Regardless of Drive-Through Direction**
- **Axle Loads and Speed Displayed on an Interactive Terminal**
- **Stoptlights System for Controlling Vehicles**
- **Variable Print Formatting**

Application

Hermes is a dynamic Weighing system for weighing road vehicles axles. The axle load scales are ideal for situations where there is, for example, insufficient space to install vehicle scales and if the scales are not required to perform further calculations. Whereas a vehicle on a static axle loads scales must come to a full stop, the dynamic scales can weigh vehicles as they drive slowly across. The weight is calculated by automatically adding the axle loads. The calculated data can be recorded onto a printer or an electronic storage medium. Alternatively, the system can also be connected to an on-site computer system via a number of possible interfaces.

Equipment

The system is supplied with the DISOMAT[®] Tersus weighing electronics and the software package for HERMES. The weighing system attached to the scales can filter interfering factors out with the use of a number of variable parameters and can also determine vehicle speed in addition to the weight. The maximum vehicle speed can be up to 13 km/h. The accuracy depends heavily on the road holding in front of and behind the weighbridge. The results are influenced by the construction (axle suspension, suspension characteristics) of the vehicles to be weighed, as they are not positioned entirely on the scales.

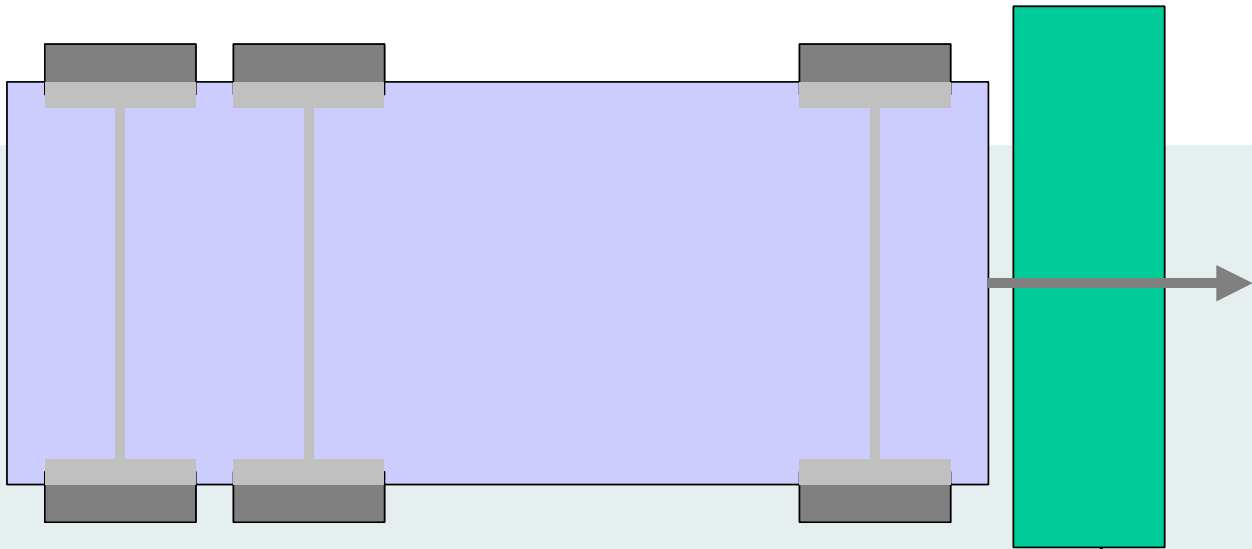
Function

HERMES comprises the basic functions:

- Calculation, monitoring and display of axle loads and overall loads
- Input of the vehicle license number
- Contact settings for "Ready", "Weighing Valid", "Weighing Invalid", "Too Heavy"
- Calculation of speed
- Calculation of weight, regardless of the direction of travel
- Drive-through controlled by a stoptlights system

Further features that may be selected:

- Fully automatic weighing process (automatic, operator-free weighing with no need to alight or stop)
- Connection to a computer/PDA system



Technical Data

Installation length of the dynamic scales	Bridge length may be adjusted in the software program
Weighing range per axle	Model 15 t - 20 t
Weighing operation	Dynamic
Weighing accuracy	The axle-load weighing accuracy depends on the local conditions of the scales, in particular on the even surfaces in front of and behind the scales.
Scales' speed range	2 to 13 km/h

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