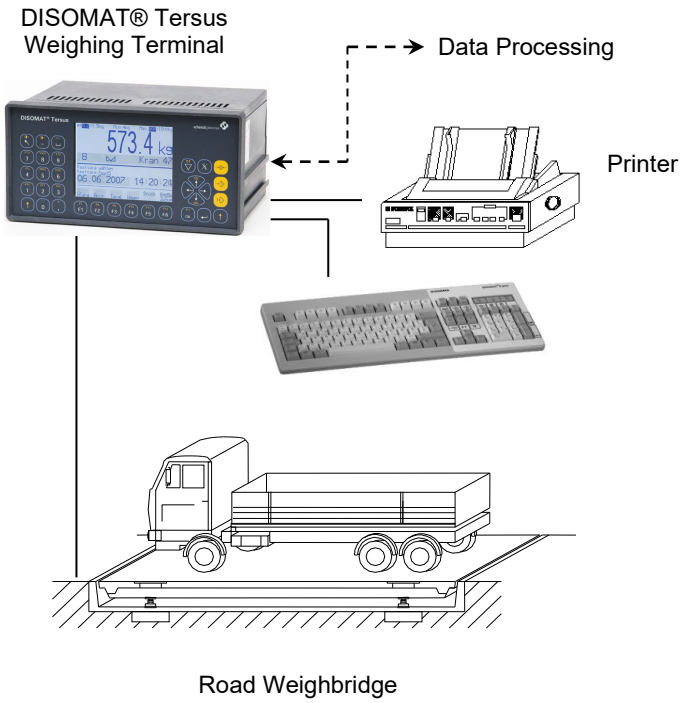
DISOMAT® Tersus - ZEUS Road Weighbridge

- **DISOMAT® Tersus Road Weighbridge Applications Package**
- **Easy Operation**
- **Legal-for-trade Transducer with PC Controlled Scales-Workstations**
- **Integrable Legal-For-Trade Memory**
- **Remote Swivel Keyboard for Alphanumeric Input**
- **Model with Two Measuring Channels Available for Twin Scales**
- **Can also be Used for Static Rail Weighbridges**



Road Weighbridge

Application

The ZEUS program gives the DISOMAT® Tersus the standard functionalities of a road or rail weighbridge. The net weight of the cargo is calculated from the difference between the weight of the vehicle measured at entrance and exit (first and second weighings). Single weighings may also be performed.

A data set is created for each vehicle and forwarded to a connected printer via the printer interface. The DISOMAT Tersus can also be used as a legal-for-trade transducer for scales operation per PC. If a computer is connected, the DISOMAT still has an easy-to-use backup operation.

Design

The ZEUS applications package can be activated in every DISOMAT Tersus by entering an activation code. The parameters may be set by the operator. The weighing and calibration parameters can be set by Schenck Process, if desired. The remote swivel-keyboard and a suitable printer and connecting cable are supplied with the DISOMAT Tersus ZEUS complete package. ZEUS can also be run with an integrated legal-for-trade memory instead of a printer.

ZEUS can also be used with twin scales in the model with two measuring channels.

Function

First / Second Weighing

The vehicle is weighed when it enters the site. The weight is stored temporarily under the licence plate number or the rail car number. In the process, the first-weighing data is transmitted to the printer interface. The vehicle is weighed again when leaving the site. The stored weight is identified using the vehicle's licence plate number or the number of the rail car. The difference in weight thus determined is equivalent to the weight of the goods loaded or unloaded on-site. If connected to a printer, the weigh bill printed will show the results of the initial weighing, the second weighing and the net weight determined (see below).

Single weighing
The vehicle is only weighed once; the tare weight of the vehicle can be entered manually so that the system can calculate the net weight.

Weighing Using Fixed Tare Weight
Used to determine the weight of cargo based on the overall vehicle weight ascertained and the stored empty weight.

File Maintenance Functions
For deleting / altering / printing the contents of:
- Materials files
- Vehicle files
- Fixed-tare files

Print functions
(with printer connected)
- Printing the weights calculated
- Printing the data stored

Files
- First-weighing file for storing 99 initial weighings
- Fixed-tare file for storing empty-weights of 25 known vehicles
- Materials file for storing the weight of 25 materials

Totaling Function
The amount of each material weighed is measured and can be displayed and printed at will.

Stoplights Control
Used to control on-site or (optionally) delivered
Entrance / exit stoplights with the following functionality:
- When a vehicle enters, entrance and exit are closed (red signal).
- Once weighing is complete, a green exit signal is given.
- Once the scales are completely relieved, the entrance signal also turns green and the scales are ready for next weighing operation.
- The stoplight can be connected directly to the device without the need for an external control unit.

DISOBOX External A/D Convertor
Optionally, up to two external legal-for-trade DISOBOX A/D convertors can be connected to the DISOMATs. If so, they would replace the internal measuring channels. In this 'mechatronic' design, the A/D convertors are located directly on the scales, ie. beneath the weighbridge. Data is communicated serially and thus also safe from disruptions over longer distances.

Second Operating Station
A second DISOMAT® Tersus can be used as a second, removable operating station ('mirror device'). This function is available in every DISOMAT Tersus housing variant. The operator has an identical display and keyboard to the main device, also with the remote alpha-keyboard, if desired.
Printer, computer connection etc. can also be controlled using the second operating station rather than the main device, if desired.

Sample weigh bill with connected printer

Date	Timet	Seq. No.	Carrier No.	Licence No.	Material No.	Material Name	Weight on the scales	Stored 1st weight	Net weight
04.10.01	14:27	0021	06	DA-DB 2344	01	Sand	8,42 t	B	
04.10.01	14:27	0022	06	DA-DB 2344	01	Sand	20,92 t	B	
								8,42 t	B
									12,50 t
							Weigher		

Design	Order number
Complete Package: DISOMAT® Tersus ZEUS, VTG 20450 desktop device with road weighbridge program, remote swivel-keyboard, DISOPRINT 332 printer, 1 ZEUS weighing forms package, operating manual	V096012.B01
Or: Package as described above, with a printer cable but no printer	V096012.B02
Or: Package as described above, with VMM 20450 legal-for-trade memory but no printer	V096012.B03

Options
Secondary- and Large-size Display Units as per technical data sheet BV-D2003
Stoplight system BV-D2296
Gates system BV-D2298

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