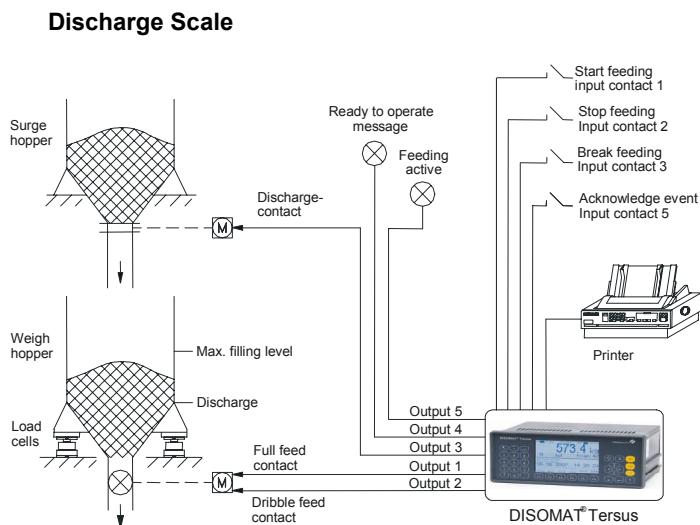


## DISOMAT® Tersus - Discharge Scale



- **Function variant for discharge feed from weigh hoppers**
- **Feeding by full and dribble feed**
- **Automatic tolerance check and tracking optimization**
- **Weighing sequence control via keyboard, input contacts or EDP interface or fieldbus**
- **Weighing report and totals printout**
- **10 parameter records for materials with different feed properties**
- **Legal-for-trade dynamic weighing of rail vehicles**

### Application

The discharge scale functional variant gives DISOMAT Tersus the functionality of one-component feeding control: Set/act comparison in full feed and dribble feed, material flow monitoring, tolerance check and tracking optimization.

### Equipment

Permanently stored in the DISOMAT Tersus, the linkage can be loaded by the user and changed to suit his specific requirements.

Individual functions, operating instructions, function block plan and parameter table are detailed in the Operating Manual.

If required, setting can be made by Schenck with known scale and calibration parameters as well as requisite feed parameters.

For materials with varying properties, 10 selectable parameter records (materials files) are available.

### Functions

The discharge scale is designed to feed liquids or bulk solids out of hoppers into containers. Discharge is in two speeds, by full feed and dribble feed, to set point. You can also trigger feed units with an analog interface (such as discharge screws). The amount fed is checked for tolerance and made up, if necessary. Overfill is reported by a message.

After each aborted or completed feed operation, weigh data are automatically printed and balanced. The balance contains the cumulative total of NET weights and the total number of NET weighings performed. The balance can be displayed and printed.

## Weighing Sequences

- Discharge weighing
- Discharge weighing with refill
- Multiple discharge weighings with refilling

## Function keys

- Acquire Tare
- Clear Tare
- Display Tare
- Start
- Stop
- Abort
- Print intermediate total
- Print Total / Clear Balance Memory
- Print Repeat
- Select Material / Enter Set-point
- Set to Zero
- Test Functions

## Other Menu Tree Functions

- Enter String
- Key-in Tare
- Select Fixed Tare
- Single Printout
- Settings

## Input Contact Assignment

- 1: Start
- 2: Stop
- 3: Abort
- 4: N.C.
- 5: Acknowledge event

## Output Contact Assignment

- 1: Full Feed
- 2: Dribble Feed
- 3: Refilling
- 4: Ready
- 5: Feeding active
- 6: N.C.

## Printing

Single printout is preset with Print Pattern 2; totals printout, with Print Pattern 3. Assignment of print pattern to function key can be changed at will, e.g. Single Printout key can also be assigned Print Pattern 1.

The variable print pattern formatting gives the users the possibility to design their own weighing reports. Defaults are as follows:

## Print Pattern 1:

One head line and one line for weigh data. A string with product data of up to 30 digits can be entered for each printout. This string remains stored until being overwritten. After each printout a form feed is effected.

## Print Pattern 2:

One line for weigh data. String can be entered and remains stored until being overwritten. After each printout a line feed is effected.

## Print Pattern 3:

1 line for totals printout without string.

### Print Pattern

#### Single Printout (Print Pattern 1):

Date	Time	Cons. (Weigh No.)	Weight Data
25.02.00	10:45:00	123	1234567890 <123.5kg>B <24.0kg>T <99.5kg>Net

#### Single Printout List (Print Pattern 2):

25.02.00	10:45:00	123	1234567890 <99.5kg>Net
25.02.00	10:47:00	124	1234567890 <100.0kg>Net
..			
25.02.00	11:55:00	150	1234567890 <99.5kg>B
25.02.00	12:10:00	151	1234567890 <99.0kg>B
25.02.00	12:25:00	152	1234567890 <100.5kg>Net

#### Totals Printout (Print Pattern 3):

25.02.00	12:30:00	30	3001.5kg SU
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<p><b>EDP Communication</b></p> <p>For DISOMAT Tersus, the following EDP transmission procedures are available:</p> <ul style="list-style-type: none"> <li>- SCHENCK Standard procedures (DDP 8 672)</li> <li>- SCHENCK Poll procedures (DDP 8 785)</li> <li>- SIEMENS 3964 R (DDP 8 782)</li> <li>- SIEMENS 3964 R for SIMATIC S5/S7</li> </ul> <p>DISOMAT Tersus caters for a fixed set of commands that can be addressed by the EDP programmer, if required. Eligible commands, messages and protocols are detailed in the Data Communication Manual.</p> <p>The EDP commands most frequently used are listed below.</p> <p><b>Typical EDP commands:</b></p> <ul style="list-style-type: none"> <li>- Tare</li> <li>- Clear tare</li> <li>- Preset tare value</li> <li>- Set to zero</li> <li>- Request single weight</li> <li>- Request weight at standstill</li> <li>- Request cyclic weight</li> <li>- Request balance total</li> <li>- Clear cumulative total</li> <li>- Preset string</li> <li>- Print patterns 1, 2, 3</li> <li>- Print with copy to EDP</li> </ul>	<p><b>Response messages by DISOMAT Tersus</b></p> <ul style="list-style-type: none"> <li>- Message is processed</li> <li>- Command executed</li> <li>- Command executed, send data to EDP</li> </ul> <p><b>Messages Initiated by DISOMAT Tersus</b></p> <ul style="list-style-type: none"> <li>- Feeding complete</li> <li>- Feeding interrupted</li> <li>- Weight at standstill</li> <li>- Cyclic weight</li> <li>- Taring complete</li> <li>- Zeroing complete</li> <li>- On the "Print With EDP Copy" command, DISOMAT Tersus acknowledges successful printout in form of a message that can widely be configured at will.</li> </ul> <p><b>Fieldbuses</b></p> <p>In addition to the serial EDP interfacing, DISOMAT Tersus Discharge Scale can also be controlled using the most frequent fieldbus systems.</p> <ul style="list-style-type: none"> <li>- Modbus</li> <li>- Profibus DP-V0</li> <li>- Device Net</li> <li>- Modbus -TCP (via Ethernet)</li> </ul> <p>For details, see System Manual BV-H 2334 and Data Communication Manual BV-H 2359.</p>	<p><b>Flexibility</b></p> <p>Although the Discharge Scale function has been set and supplied, the logical function block system can be used to the full extent. The discharge scale can be matched to new requirements or replaced by a totally different function. This can be performed using the DISOMAT Tersus keyboard or, even more convenient, on PC using the DISOPLAN software tool.</p> <p><b>Variants</b></p> <p>For DISOMAT Tersus Weighing Terminal, see Data Sheet BV-D2273GB.</p>
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