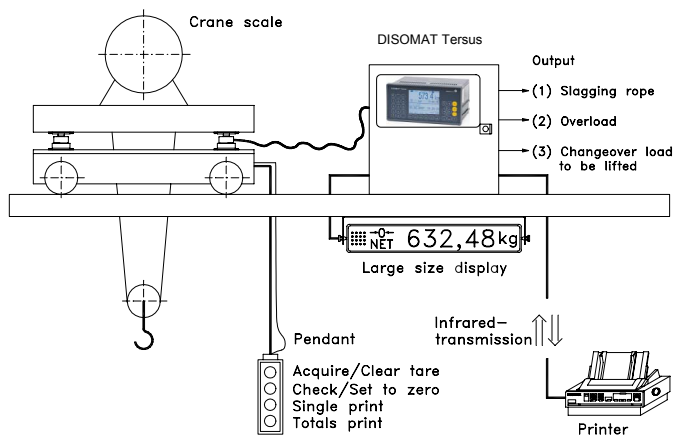# DISOMAT® Tersus - Crane Scale

- **Crane Scale application package**

- **Control of weighing functions via crane pendant keys**

- **Variable print pattern formatting**

- **Slack rope and overload reporting contacts**

- **Data transmission to the printer or data processing unit by infrared link or radio (optional)**

- **Collective load memory (optional)**

- **Legal-for-trade data storage (optional)**

- **Two-measuring-channel variant for dual-trolley cranes**

Application

The Crane Scale function variant provides all functions required for DISOMAT® Tersus to control a crane scale from crane cabin or ground station.

Construction

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

Individual functions, operating instructions, function block diagram 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 function block parameters, such as MIN/MAX threshholds, being adapted accordingly.

Function

All weighing functions can be triggered via input contacts from keys on pendant or via radio transmission.

Cab controlled crane scales are operated direct from DISOMAT® Tersus keyboard.

Before weighing start, the weight of auxiliaries can be tared off.

The weighing result can be printed in form of a list. The printing process is shown on the large display.

To avoid double printing, no new print job is accepted before scale has been unloaded.

It automatically balances every time it prints out while totaling the gross or net weight depending upon the tare status. The balance contains the total weight and number of weighings balanced.

The optional collective load memory (LKS) totals the load of the hoist and the system uses the collective load and other specific plant data to calculate the anticipated remaining hoist life. You can call up the remaining life on the unit display and large display.

we make processes work

Input/Output Contacts
[values in brackets optional]

Inputs
- Acquire / Clear Tare
- Set to Zero / Test / Acknowledge Error
- Weigh and Print
- [Print Total]
- [Scale 1 Hoist Active]
- [Scale 2 Hoist Active]

Outputs
- Slack rope (Gross < 0)
- Overload (Scale 1)
- Change Over Load To Be Lifted Scale 1 (higher lifting capacity)
- Ready
- [Slack rope Scale 2]
- [Overload Scale 2]
- [Change Over Load To Be Lifted Scale 2]
- [Overload Total (Scales 1+2)]

Function Keys
- Acquire tare
- Clear tare
- Display tare
- Key-in tare
- Set to zero
- Enter string
- Print single weight
- Print total / reset balance
- Repeat printing
- Test functions

Options
- Printer
- Large-size displays
- Legal-for-trade memory
- Data transmission
- Bus interfaces
- Collective load memory
- Second measuring channel

Schenck Process GmbH
Pallaswiesenstr. 100
64293 Darmstadt, Germany
Phone: +49 6151 1531-1216
Fax: +49 6151 1531-1172
sales@schenckprocess.com
www.schenckprocess.com

Print Pattern (sample default setting, easy to change on device)

Single Printout:

Date	Time**t**	No.	Cons. (String)	Weight
23.04.01	12:10:00	151		<99,0kg>B
23.04.01	12:25:00	152		<100,5kg>Net

With cab controlled crane scales, you can enter a product data string for each printout.
String remains stored until being overwritten.

Single Printout With String:

23.04.01	12:10:00	151	333-247-A	<99,0kg>B
23.04.01	12:25:00	152	333-247-A	<100,5kg>Net

Totals Printout:

23.04.01	12:30:00	30		3001,5kg SU

Variants (Examples)

DISOMAT® Tersus panel-mounting unit in field housing 1 measuring point, no infrared, no collective load memory
DISOMAT® Tersus panel-mounting unit in field housing 1 measuring point, infrared, no collective load memory
DISOMAT® Tersus panel-mounting unit in field housing 1 measuring point, no infrared, collective load memory
DISOMAT® Tersus panel-mounting unit in field housing 1 measuring point, infrared, collective load memory
DISOMAT® Tersus panel-mounting unit in field housing 2 measuring points, no infrared, no collective load memory
DISOMAT® Tersus panel-mounting unit in field housing 2 measuring points, infrared, no collective load memory
DISOMAT® Tersus panel-mounting unit in field housing 2 measuring points, no infrared, collective load memory
DISOMAT® Tersus panel-mounting unit in field housing 2 measuring points, infrared, collective load memory
DISOMAT® Tersus stainless steel unit 1 measuring point, infrared, collective load memory
DISOMAT® Tersus stainless steel unit 2 measuring points, infrared, collective load memory

All variants include

- Mounting tools for field housing
- Large size display with mounting tools
- Documentation (including all wiring diagrams)
- Setting of scale parameters
- Parametrisation of collective load memory, if any.

Further configurations available upon request. For more information on DISOMAT® Tersus Crane Scale, see Manual BV-H2133AA.