

CONiQ Control Application for Static Scales

- Intuitive touch controls
- Web-based user interface
- High legal-for-trade accuracy up to 6000 d and 0.3 μ V/d
- Multi-range/Multi-interval scale, up to three ranges
- Service access for tablet or smartphone



CONiQ Control is an evaluation software especially for the modular CONiQ Control system for standard weighing applications, such as cargo scales (weighbridge and roller table scale), crane scales, truck scales and hopper scales. The user interface received the *reddot award 2019 – winner interface design* for its intuitive handling.

Application

The basic function involves weighing a load with strain gauge load cells. Optionally, the appropriate application can be selected from various application modules. These function variants are available:

- Simple scale
- Cargo scale
- Crane scale
- Truck scale
- Hopper scale

The internal PLC, in accordance with IEC 61131-3, and the optional VBU6000 software package make it possible to implement complex projects and customize the user interface for specific users and applications.

Function

- Manual tare value
- Tare determination by weighing the empty container
- Saving and printing the weighing results
- Also provides support for additional tasks
- Weighing results are saved internally
- Compatible with the DISOSAVE external legal-for-trade memory

Award-winning user interface

Winner of reddot award 2019 interface design:

- Intuitive operation
- Short learning time
- Plaintext error description
- Three pre-defined user groups



reddot award 2019
winner interface design

Modular System

Configure your CONiQ Control to suit your application.

- No re-verification when replacing mainboard and I/O modules (except for legal-for-trade weighing module)

Basic functionality and options

The basic function **simple scale** includes the legal-for-trade weighing of a load supported on a strain gauge load cell.

Basic functions, such as taring and weight recording, can be carried out flexibly as required.

Operation and maintenance tasks can be carried out either via the built-in touch display, an external keyboard or an external browser.

Software for **cargo scales**:

If required, enter the known tare of a weigh hopper or determine it by weighing the empty container. Use the weighing result to save or print further specific information on the process in the desired format. All results are also available via the fieldbus interface, which can also be used for operation if required.

After a long period of inactivity, the weight appears in large letters on the display. By touching the screen, you can then return to the operating screens.

Software for **truck scales**:

After setting to zero, the scale clears the entry. Simply enter the license plate number of the vehicle and select the type of weighing: first weighing, second weighing, one-off check

- Connection of further peripherals
- fieldbus interface

weighing or tare weighing. After an initial weighing, enter the required additional information and carry out the weighing. CONiQ Control supports you during the entry process with context-related default values. The result is saved with the additional information and printed if required.

Software for **crane scales**:

Before weighing, select the method to be used to determine the tare: Manual input or measurement. After entering additional information on the weighing process, you can start weighing. The result is saved with the additional functions and printed if required.

Software for **hopper scales**:

The application allows the setting of fixed (weight) threshold values or percentage limit values in relation to the maximum fill level. The current fill level - liquid or bulk solids - is then displayed as a percentage and in the selected unit of measurement. The software is therefore used to quickly and easily monitor the fill level of a container and allows two-point refill control to prevent overflow or dry running.

Weighing channel data

Supply for strain gauge load cells	5 VAC
Input signal	0 - ±17 mV
Internal resistance of the load cells	> 35 Ω
Sensitivity able for legal-for-trade	0.3 µV/d
Scan rate	129 per second
Display increment	1, 2, 5 in the last digit
Units of weight	kg, g, t, lb, N, kN, lt, st
Resolution of the legal-for-trade measured value ²⁾	Max. 6000 d Multi-range: 3x 4000 d Multi-interval: 3x 4000 d
Resolution of the not legal-for-trade measured value	16 million parts
Tare setting	0 ... 100 % ¹⁾
Zero setting range	Adjustable, max. 20 % ¹⁾
Automatic zero-setting	If required: 0.5 d per second
Weight value filtering	0 – 10 s
Linearity error	< 0.025 ‰ ¹⁾²⁾
Zero point drift TK0+	< 0.024 ‰ / 10 K ¹⁾²⁾
Sensitivity drift TKc	<0.03 ‰ / 10 K ¹⁾²⁾
Compound error Fcomb	<0.05 ‰ / 10 K ¹⁾²⁾
Max. cable length l	1000 m with wire cross-section ≥ 0.5 mm ² Longer cable on request

¹⁾ From the final value

²⁾ Also note the limitation due to the load cell used.

