schenck process

CONiQ® Control 4.3“ Compact
Weighing controller for industrial scales

- **Intuitive touch controls**
- **Web-based user interface**
- **Modular design**
- **Simple system integration**
- **Internal PLC according to IEC-61131-3**
- **Legal-for-trade according to EN 45501 OIML R51 / NTEP**

CONiQ Control 4.3” Compact is an innovative and flexible weighing control system for various industrial weighing applications and process controls. Awarded the reddot award 2019, the touch control interface intuitively guides the user through the program (according to ISO 9241) directly on the device or also using web-based remote access. The internal PLC enables operators to implement complex projects and user-specific visualizations on the controller.

reddot award 2019
winner interface design

Modular design

Configuration appropriate for your application:

- Functions determined by the software module used
- Three freely assignable slots for I/O expansion modules
- Color TFT touch display
- Connection of additional peripherals via USB
- No re-verification necessary when replacing mainboard or I/O modules
- Fieldbus interface for simple system integration
- Different enclosure variants incl. Stainless-Steel variant

Award-winning user interface

- Intuitive handling
- Short learning time
- Clear text fault indication
- Three definable user groups
- User-specific visualizations possible

Web-based user interface

- No App or software installation required
- Browser-based
- Easy service access
- Remote support possible
- TLS 1.3-based encryption

Optional:

- WiFi for wireless service access
- Fieldbus card
- Programming bundle VBU6000 for Internal PLC

PROFIBUS® PROFINET®

General data 4.3" Compact device

Display technology	4.3" color TFT with capacitive touch control
Display size (W x H)	95 x 53.7 mm
Power supply	100 … 240 VAC (-15%, +10%) Alternatively: 24 VDC (-7%, +12%) Overvoltage category II Low voltage side: PELV in accordance with EN 60204-1
Power consumption	Max. 30 W
Ambient temperature	Operation: -30 … 50 °C; up to 95 % relative humidity non-condensing Storage: -30 … 80°C; Humidity <95 %
Installation height	<= 2000 m
Date/time	Real-time clock, running time reserve without voltage: min. 7 days
Serial interfaces	1x RS485 (2-wire) and 1x RS232
Office bus interfaces	2x USB (master) 1x Ethernet (RJ45, 10/100BASE-T)
Fieldbus interface options (alternative)	Modbus-TCP Modbus-RTU PROFINET PROFIBUS DeviceNet EtherNet/IP
Slots for input/output modules	4 (1 occupied as standard for load cell interface)
Certifications	CE, EAC, UKCA (UL, IECEx, ATEX in preparation) EU type approval (NAWID) according to EN 45501 EU type approval (Catchweigher) according to OIML R51 / MID US type approval according to NTEP

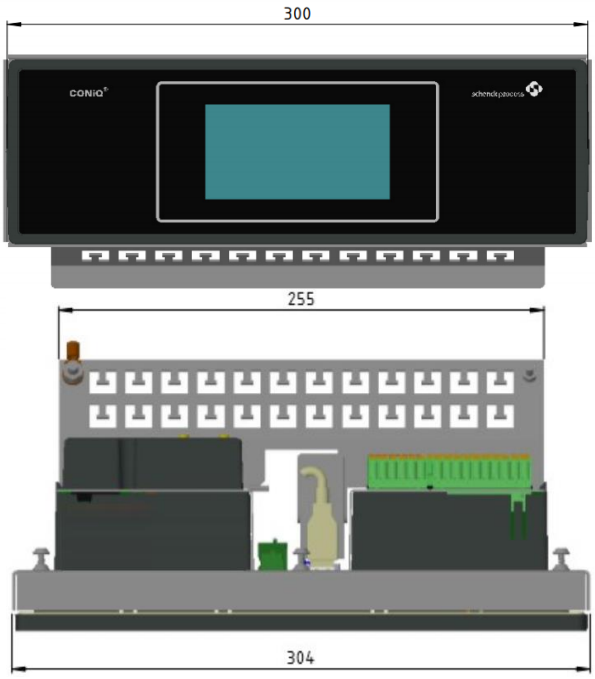
Input/output modules

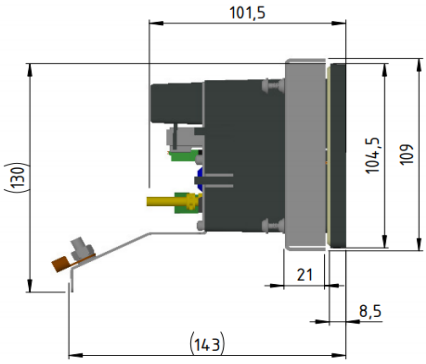
Inputs and outputs	Module
2 weighing circuits, 2 sensor inputs	VLC6030
1 weighing circuit, 2 sensor inputs	VLC6033
6 binary inputs, 4 binary outputs (24 V, 0.5 A), 1 analog output 20mA	VBY6030
4 binary inputs, 2 binary outputs (24 V, 0.5 A)	VBY6032
8 relay outputs (230 VAC, 1 A)	VRY6030
3 analog outputs, 2 analog inputs; (each 20 mA or 10 V)	VAN6030
1 analog output, 1 analog input; (each 20 mA or 10 V)	VAN6031

Optional process communication

Interface/protocol	Module
Modbus TCP or Modbus RTU	Plug connection on basis module
PROFIBUS	VPB6030
PROFINET **EtherNet/IP**	VET6030
DeviceNet	VDN6030

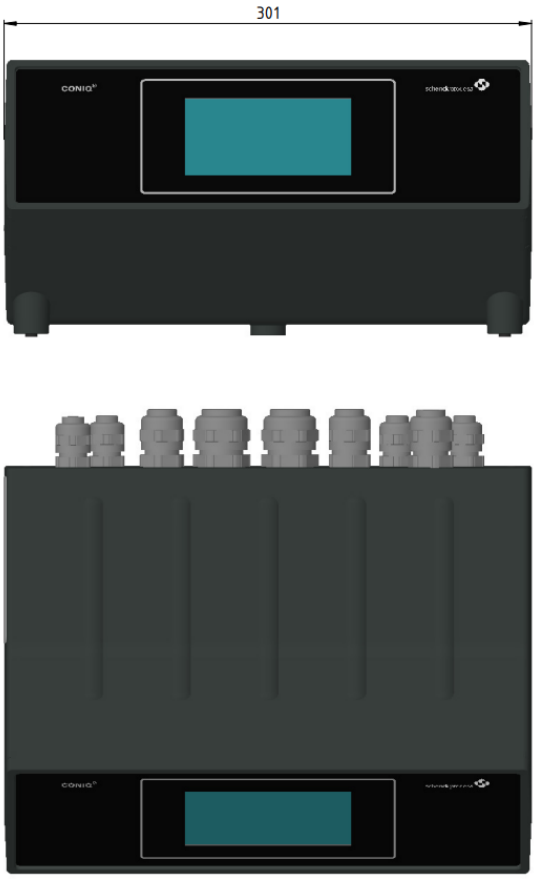
Control panel device

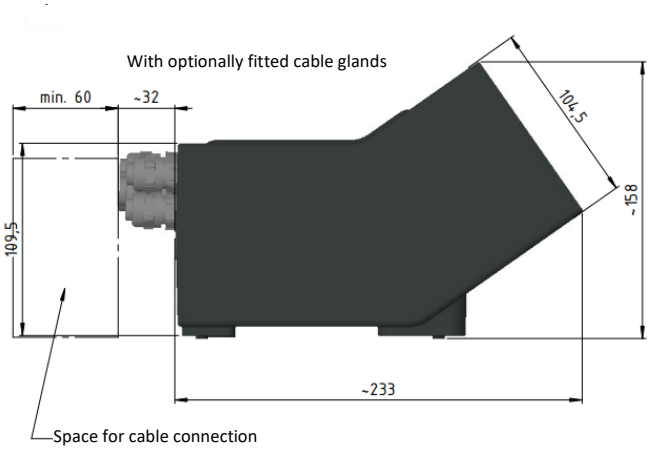




Operating panel cut-out (W x H)	$282^{+0.5}$ x $88^{+0.5}$ mm
Protection class	Front: IP 65 Back: IP 20
Weight	1.4 kg

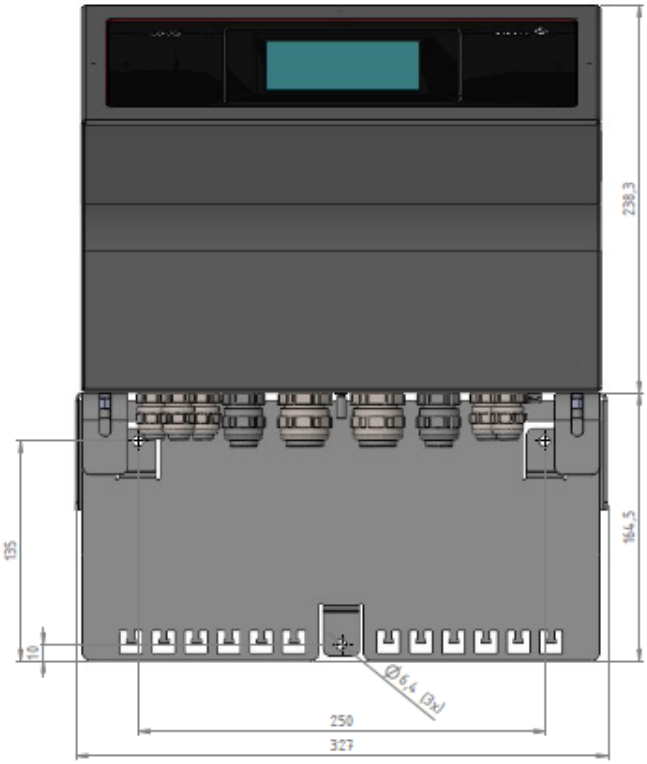
Wall & desktop device in plastic housing

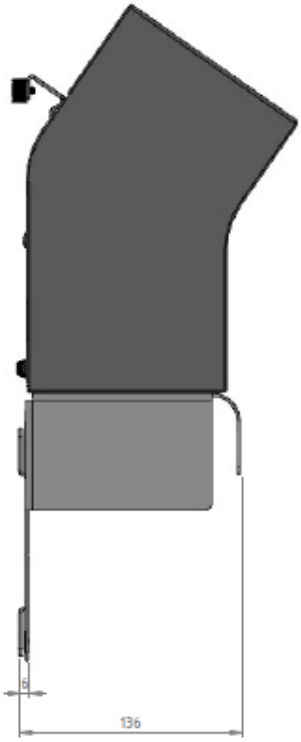


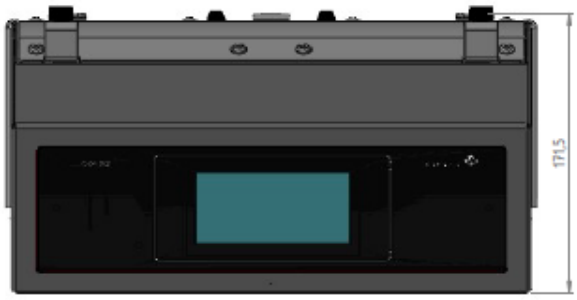


Protection class	With membrane cable inlets at rear: IP 54 With plastic cable glands at rear: IP 65
Weight	2.3 kg

Wall & desktop device in stainless-steel housing







Protection class	IP 65
Weight	5.3 kg

Type code

CIQ:D1400.***0-*.0.*.***0.**00.**00.**00-**********