The compact professionals **²**

EC trade approved and OIML certified
Classes ⫿⫿⫿ and ⫿⫿⫿⫿

82b²

82c²

- compact stainless steel enclosure
- high IP67 rating
- alibi memory admissible for verification
- white backlight
- large 27 mm LC display

RHEWA
Waagen

Measured applications and functions!

Boasting premium heavy-duty stainless steel enclosures and an IP67 rating, our legal for trade indicators 82b2 and 82c2 can be deployed for all manner of applications. The 14-segment-LCD with white backlight offers outstanding read quality in all light conditions, as does the visual signalling device integrated in the enclosure. An integral switched-mode power supply guarantees stable operation even during the inevitable supply fluctuations.

Well laid out keys make for easy instrument operation – both for standard weighing functions and other tasks such as counting and accumulating. The battery-buffered clock, legal-for-trade alibi memory, and standard and optional interfaces come into play whenever communication with control computers or integration in an ERP system is required.
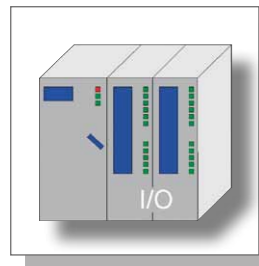
RHEWA Waagen

... verified quality.

Operation
• On-Off
• Menu
• Info

Visual signalling device*
• Three colours (blue, red, green) for easy target/actual monitoring (interval switching function) or instrument status indication (tare, zero position, stable equilibrium, data output)

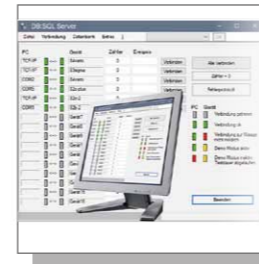**Switching and control**
Inputs and outputs

82c²

The indicator 82c² has a numeric keypad for entering tare values, unit weights, reference quantities and variables; it also comes with three user-assignable function keys for user-friendly, custom weighing workflows created using the RHEWA script language. Functions such as accumulate, count, and target weight and quantity control, coupled with options such as inputs, outputs, analogue output and a variety of software modules, offer the flexibility you need for a broad range of applications.

82b²

The indicator 82b² is suited for simple, intuitive weighing tasks and allows (serial or Ethernet) connectivity to printers and legally relevant computer systems thanks to the alibi memory device fitted as standard.

Weighing functions
• Print
• Zero
• Tare

ALIBI

Legal for trade alibi memory
with direct data transmission to PC without printer

Option cards
• Ethernet
• Profibus
• Analogue output
• WiFi
• RS-422

1:1

10 user-configurable weighing sequences and print layouts
• User-programmable guided operating sequences
• Custom print tickets
• Self-generating standard print tickets as per active weighing function

Software modules
• PC software* (Datalog-SQL)
• PC software * (Datarouter)
• Statistics function*, FPVO-compliant
• Warehouse management/stocktaking
• Target weighing
• Animal weighing software

Accessories
Ability to connect peripherals such as printers, scanners, large displays, data loggers and PCs via serial interface(s)
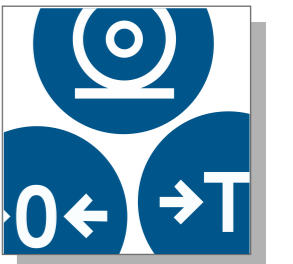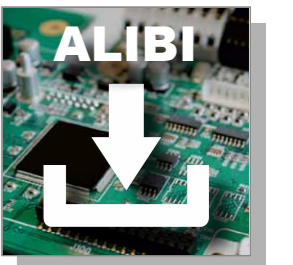
Enclosure
· Enclosure in stainless chrome nickel steel 1.4301
· Net weight: 2.1 kg
· Rear cable egress with metric glands

Keypad
· Membrane keypad (polyester)
· Service life > 1 m keypresses
· High resistance to most aggressive substances
· **82b²** : 6 keys
· **82c²** : 27 keys

Display
· 14 segment LC weight display, 27 mm, backlight, 7-digit
· Status indication of active weighing functions

Ambient conditions
· EMC emissions: EN 55011
· Operating temperature: -10 °C to +40 °C
· Storage temperature: -20 °C to +65 °C
· Humidity: max. 85 %, non-condensing
· Ingress protection: IP 67, DIN/VDE 0470 (protection against dust, contact and water jets, temporary immersion possible)

Electrical connection
· Integral switched-mode power supply for 110 to 230 VAC (-15% to +10%)
· Power consumption: max. 15 VA, typically 5 VA
· Mains plug with 2 m lead
· Mains frequency: 50/60 Hz +/-5 %
· Optional direct feed without integral mains adapter: 10.5 - 18 VDC, ripple < 3 %

Load cell terminal
· 1 measurement input with max. 8 x 350 - 27 x 1100 Ω
· Minimum permissible total terminal resistance ≥ 40 Ω
· Supply voltage: 5 VDC
· Characteristic value: max. 3.0 mV/V
· Measurement cable: 6-way (shielded)
· Approved according to 2014/31/EU

·Analogue-to-digital converter
· Sensitivity: > 0.3 µV/e
· Conversion time: 20 - 160 ms
· Measurement rate: up to 50 measurements per s
· Internal resolution: approx. 5,000,000
· Settling time: 0.5 - 3 s
· Connection: 6-way system

Clock
· Battery-buffered clock, battery life approx. 10 years

Weighing range and scale interval
Class III :
· Single range instrument: n ≤ 10.000 e
· Multiple range instrument: 3 x n ≤ 6.000 e
· Multi-interval instrument: 3 x n ≤ 6.000 e
Class IIII : 1.000 e
· Not admissible for verification: n ≤ 100.000 d (limited by load cell)

Adjustment program
· Adjustment: 2 - 5 user-selectable adjustment points
· g-value correction: via entry of g-value
· Adjustment correction: resettable adjustment points
· Manual input: entry of adjustment points (load and AD value)
· Initial load correction: settable without complete re-adjustment
· Digital filter: user selectable to ambient conditions, with post-conformity assessment optimisation

Interfaces
· **82b²** : 1 RS-232 serial port (standard)
· Transmission rates: (600 - 38.400 Bit/s)
· **82c²** : 2 RS-232 serial ports (standard)
· Transmission rates: (600 - 38.400 Bit/s)

Digital inputs/outputs
· 2 inputs
· **82b²** : 1 digital output with max. 2.5 A,
· **82c²** : 2 digital outputs with 1 x max. 2.5 A and 1 x max. 0.4 A

Visual signalling device
· Three colours (red, green, blue)

Memory
· Tare memory: 1 or 2 tare memories for containers (T1) and weighed product (T2), together max. 100%
· Data memory for 10 weighing sequences/ print tickets (PC configurable only)
· Variables memory: 10 variables 10-digit Alphanumeric entry via scanner or PC.
· Alibi memory for min. 144,000 entries
· **82c²** : Statistics memory for one product line
· **82c²** : Accumulation memory: 10 memory locations with user numeric name assignment for net, gross, tare 1, tare 2, manual tare and unit quantities, addition counter. Largest possible value and printout: 10-digit

Option cards (card instead of RS-232 serial port)

– Ethernet (LAN)
· Ethernet 10/100 MBit
· Alibi memory expansion by additional 144,000 or 432,000 entries

– Ethernet (WLAN)
· Ethernet 10/100 MBit
· Alibi memory expansion by additional 144,000 or 432,000 entries

– Profibus
· Profibus DP
· Alibi memory expansion by additional 144,000 or 432,000 entries

– Analogue output
· Analogue output: Selectable voltage or current output and ranges (0 to 20 mA, 4 to 20 mA, 4 to 24 mA, -10 to +10 V, -5 to +5 V, 0 to 5 V, 0 to 10 V)
· Analogue signal according to gross or net weight or (quantity **82c²**)

– RS-422
· Alibi memory expansion by additional 144,000 or 432,000 entries

Dimensions