

The Entry-level Series 82

EC approved and OIML certified

RHEWA

Waagen

STANDARD VERSION



Stainless
steel housing

IP 67

high moisture/
dust protection



RS-232

M

elektronic
approval seal



integrated
power supply



configurable
on the PC
including print



Dongle-
function



82^{alpha}

Small but nice - exactly the right indicator when it comes to pure weighing and taring. A serial interface on board for printer connection or IT connection also via USB or TCP/ IP. Easy to read LED display. Low power consumption.



82b¹

The indicator is just as intuitive and safe to operate as the 82alpha. Very fast weight determination due to powerful AD converter. Large LCD display with white backlight and battery-backed clock, on / off switch. In addition to the serial interface as external modules other option cards such as analog output, Profibus, Ethernet, WLAN and ProfiNet are available.



82c¹

The "Comfortable" among entry-level models- in addition to the 82b1 with numeric keyboard for counting and totaling, for enter tare values, quantities and reference weights, user-friendly control panel. Weighing platforms with 3-range function can be connected. Two serial interfaces on board. Various options allowed universal use.

OPTIONS



Analogue output



Ethernet



RS-232-USB-cabel
with integral converter



Bluetooth



Profibus



Alibi memory

Specifications

Housing

- Stainless steel case made of chrome-nickel steel 1.4301
- Tare weight: 2,1 kg
- Cable outlet on the back with metric screw connections

Keyboard

- membrane keypad (Polyester)
- lifetime > 1 Mio. operations
- High resistance to most aggressive substances
- **82^{alpha}** : 4 keys
- **82b¹** : 6 keys
- **82c¹** : 24 keys

Display

- **82^{alpha}** : 7-segment LED weight display, 25 mm, red, 6 digits, dimmable
- **82b¹** + **82c¹** : 14-segment-LCD-Weight display, 27 mm, backlit, 7 digits
- Status display of the active weighing functions

Environmental conditions

- emitted interference: EN 55011
- operating temperature: -10 °C to +40 °C
- storage temperature: -20 °C to +65 °C
- humidity max. 85 %, non-condensing
- protection class: IP 67, DIN/VDE 0470 (Protection against dust, contact and water jets as well as temporary exposure to water are possible)

Electrical connection

- Integrated switching power supply for 110 to 230 VAC (-15 % bis +10 %)
- power consumption: 5 VA
- mains plug with 2 m cable
- mains frequency: 50/60 Hz +/-5 %
- Optional direct supply without an integrated power supply: 10,5 - 18 VDC, residual ripple < 3 %

Load cell terminal

- **82^{alpha}** : 1 measurement input with max. 7 x 350 to 22 x 1.100 Ω
- **82b¹** + **82c¹** : 1 measurement input with max. 8 x 350 - 27 x 1.100 Ω
- **82^{alpha}** : Minimum permissible total terminal resistance ≥ 50 Ω
- **82b¹** + **82c¹** : Minimum permissible total terminal resistance ≥ 40 Ω
- Supply voltage: 5 VDC
- Characteristic value: max. 3,0 mV/V
- Measurement cable: 6-way (sealed)
- Approved according to 2014/31/EU

Analogue-to-digital-converter

- Sensitivity: **82^{alpha}** : >0,5 µV/e
82b¹ + **82c¹** : > 0,3 µV/e
- Conversion time: **82^{alpha}** : 60 - 400 ms
82b¹ + **82c¹** : 20 - 160 ms
- Measurement rate: **82^{alpha}** : up to 16 measurements / s
82b¹ + **82c¹** : up to 50 measurements / s
- Internal resolution: approx. 5.000.000
- Settling time: 0,5 - 3 s
- Connection: 6-way system

Clock

- **82b¹** + **82c¹** :
- Battery-buffered clock, battery life approx. 10 years

Weighing range and scale interval

- Class III :
- Single range instrument: $n \leq 10.000\ e$
- Multiple range instrument:
82^{alpha} : $2 \times n \leq 6.000\ e$
82b¹ + **82c¹** : $3 \times n \leq 6.000\ e$
- Multi-Intervall Instrument:
82^{alpha} : $2 \times n \leq 6.000\ e$
82b¹ + **82c¹** : $3 \times n \leq 6.000\ e$
- Class IIII : 1.000 e
- Not admissible for verification: $n \leq 100.000\ d$ (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

- **82^{alpha}** + **82b¹** : 1 RS-232 serial port (standard)
- Transmission rates: (600 to 38.400 Bit/s)
- **82c¹** : 2 RS-232 serial port (standard)
- Transmission rates: (600 to 38.400 Bit/s)

Memory

- Tare memory:
82^{alpha} : 1 tare memory
82b¹ + **82c¹** : 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:
82b¹ + **82c¹** : 10 variables 10-digit alphanumeric entry via scanner or PC.
- Sum memory:
82c¹ : 10 memory locations with free numerical naming for net, gross, tare 1, tare 2, hand tare and quantities, item counter. Largest possible value and expression: 10 digits

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

– Alibi memory

- **82^{alpha}** : Alibi memory for min. 60.000 or rather 108.000 entries and battery-backed clock
- **82b¹** + **82c¹** : Alibi memory for min. 144.000 or rather. 432.000 entries

– Ethernet (LAN)

- Ethernet 10/100 MBit
- **82^{alpha}** : Alibi memory for min. 60.000 or rather 108.000 entries and battery-backed clock
- **82b¹** + **82c¹** : Alibi memory for min. 144.000 or rather 432.000 entries

– Profibus

- **82b¹** + **82c¹**
- Profibus DP
- Alibi memory for min. 144.000 or rather 432.000 entries
- RS-422

– Analogue output

- **82b¹** + **82c¹**
- 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 - 5 V, 0 - 10 V)
- Analogue signal according to gross or net weight or (quantity **82c¹**)

Options

- 0180/8 dust cover
- 0372 112-V- Connection instead of mains operation
- 0400 Analogue output option card
- 0404 Interface cable
- 0413 Ethernet option card
- 0413/10 WiFi module (external)
- 0414 Profibus option card
- 0415/4 ProfiNet module (external)
- 0426 Bluetooth for RS-232 to PC or printer
- 0437/5 USB cable with integral converter for PC connection
- 0472 Alibi memory option card
- 0602 PC-software DataLog as service
- 0605 PC-software DataRouter
- 0675 program animal weighing

Dimensions

