

PR 1612/02

Compact Weighing Indicator

global weighing technologies



- High accuracy W&M indicator EC conformity certificate 3000d acc. to EN 45 501 (corresp. to OIML R 76)
- Use inside Ex-areas of Zone 2 (II CT4)
- 2 opto-isolated limit outputs
- Optional:
 - Serial interface (current loop, RS 232 or RS 422/485)
 - Analog / BCD output
 - Communication protocols
 - PROFIBUS- DP
- Luminous vacuum fluorescent display
- IP 65 front panel protection class

PRODUCT PROFILE

The PR 1612/02 weight indicator is particularly suited for Weights & Measures approved applications such as cranes, platforms, silos and weighbridges.

Operating via:

- front panel
- a remote display
- communication from a supervisory system (Dust, JBUS/MODBUS, Teleperm, PROFIBUS-DP)

The PR 1612/02 weight indicator is available in a robust aluminium housing for front panel mounting or for use as a desktop unit. Utmost interference suppression and longterm stability guarantees optimum use in harshest environments.

Specific Features

- Easy and comfortable operation, calibration and configuration routines
- Calibration without weights (input of load cell identification data)

- Load cell supply voltage of 12 V or 20 V
- Automatic zero tracking
- Multi-range scales possible (3 scales)
- SW and HW options extendable later on
- Easy connection to existing control systems because of several communication protocols

TECHNICAL DATA

Housing:

Material: aluminium
 Protection class: IP 30
 Front panel: IP 65
 Dimension (H x W x D)
 96 mm x 192 mm x 229 mm
 Panel cutout: 187⁺¹ x 91⁺¹ mm

Supply Voltage

110 V/220 V_{AC} -15 %/+10 %, 50/60 Hz

Power Consumption

25 VA / 19 W

M.T.B.F.

35.000 hours

Display

Type: vacuum fluorescent-display
 Elements: 7-digit (7 segments)
 Height: 12,5 mm
 Colour: bright green
 plus weighing and status symbols

Status Indicators

-> 0 <- zero display within ± 1/4 d standstill
 B gross weight display
 NET net weight display
 T tare weight display
 Dimensions can be set for: g, kg, t, lb
 Decimal point can be set

Control outputs

Number: 2, opto-isolated output
 Max. voltage: 32 V_{DC}
 Max. current: 75 mA

Accuracy

3000d class III acc. to EN 45 501; corresponds to OIML R 76



Load cell connection

All strain gauge loadcells,
6- or 4- wire connection

Load cell supply

12 V/20 V – selectable, short-circuit
proof. External load cell supply possible.

Minimum load impedance

(internal supply)

min 87.5 Ohm

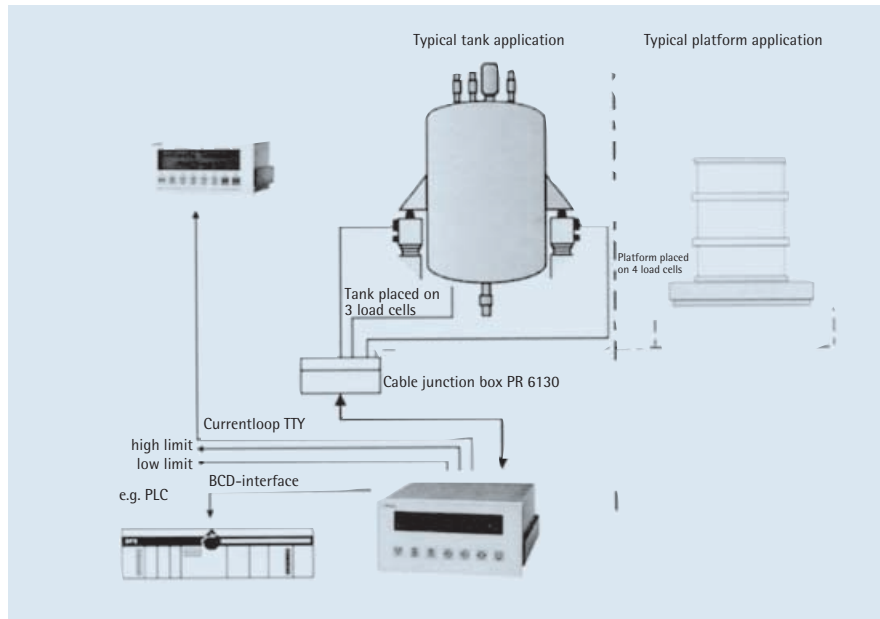
e.g. 6 load cells with 600 Ohm
or 4 load cells with 350 Ohm

Measuring principle

Measuring amplifier: integrating
converter; ratiometric to LC supply

Conversion time 50 ms.

Measuring time: 0.1 s to 2 s, can be set at
intervals of 0.1 s.



ENVIRONMENTAL CONDITIONS

Vibration

acc. to IEC 68-2-6 Test Fc

Static discharge

acc. to IEC 1000-4-2

Electromagnetic field

acc. to IEC 1000-4-3

26 MHz to 1 GHz

Interference on mains, input/output

acc. to IEC 1000-4-4

Radio noise suppression

acc. to EN 55 011

Electrical safety

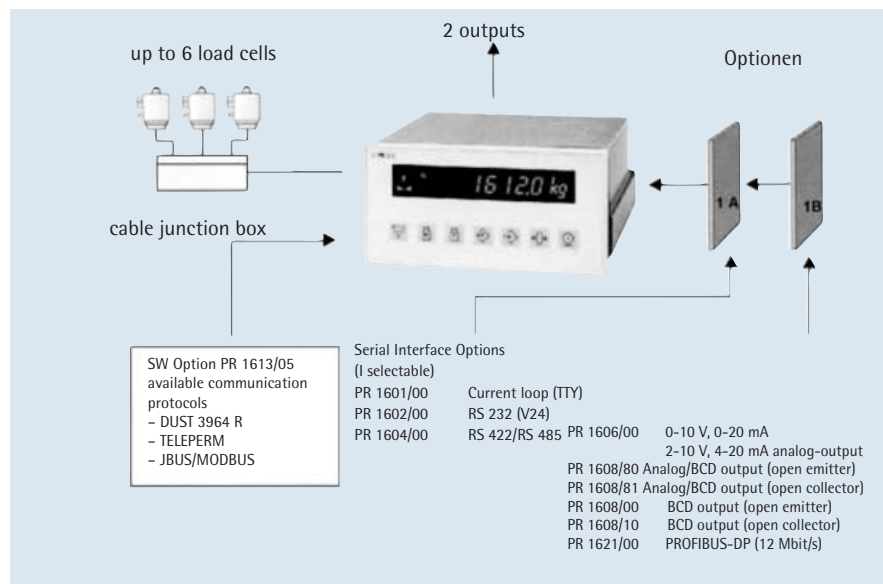
acc. to IEC 1010-1

Temperature

W & M operation: -10 °C to +40 °C

Industrial: -10 °C to +55 °C

Storage: -40 °C to +70 °C



Measuring range

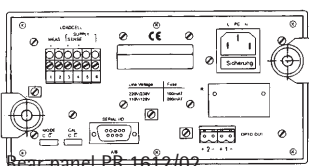
Meas. Signal: 2.4 mV to 36 mV
(for 100 % nominal load)

Dead load: 0...33.6 V

There is no interaction between
dead load and measuring range

Resolution (Internal)

0.2 mV / div. (max. 180,000 Counts)



Rear panel PR 1612/02

Analog filter

Active Butterworth low pass filter,
40 dB / decade, 2 Hz cut-off frequency

Linearity

<0.007 %

Temperature effects

Zero: <0.1 mV / K RTI

Span: <0.006 % 10 K

Packing Size

291x331x160mm

Weight

Net: 3.5 kg

Shipping: 4.4 kg

Option Number	Type
PR 1601/00	Current loop (TTY)
PR 1602/00	RS 232 (V24)
PR 1604/00	RS 422/485
PR 1606/00	Analog output
PR 1606/80	Analog/BVD output (open emitter)
PR 1606/81	Analog/BCD output (open collector)
PR 1608/00	BCD-output (open emitter)
PR 1608/10	BCD-output (open collector)
PR 1613/05	Communication-option
PR 1621/00	PROFIBUS-DP

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