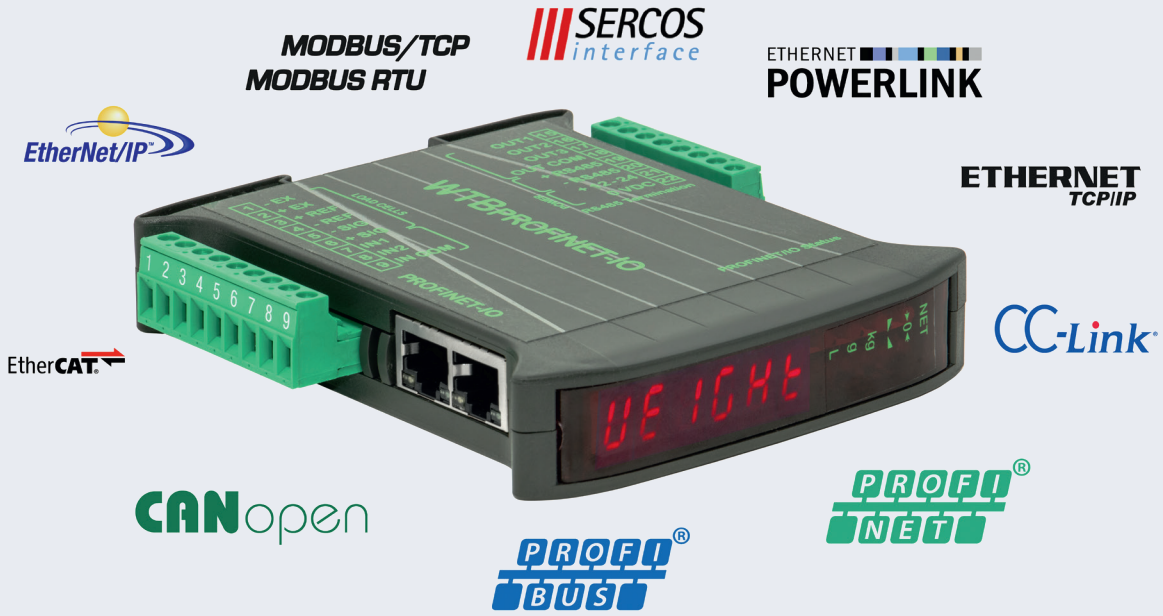
BOSCHE
WEIGHING SYSTEMS

Weight Transmitter *WTB*



Features

- EC type-approval for maximum number of verification scale intervals: n = 10000
- DIN rail mounting
- Wide input voltage range: 12 - 24V DC + / - 10%, + / - 10%
- Number of parallel load cells: max.8 (at 350 ohms)
- High measuring rate of the transmitter up to 300 measurements / sec
- A / D converter: 24 bit
- Six-digit display with red 7-segment LED‘s
- Maximum number of decimals: 4
- Programmable switching contacts
- 3 programmable potential free outputs: max. 115V AC / 60mA for control of relays
- Two digital, optically isolated inputs
- Interface: RS 485
- All connections via screw terminals
- Optional: Analog output, optically isolated,
  16-bit (selectable 0-20mA, 4-20mA, 0-10V, 0 - 5V, ± 10V, ± 5V)
- Optional: Profibus-DP, RS 232

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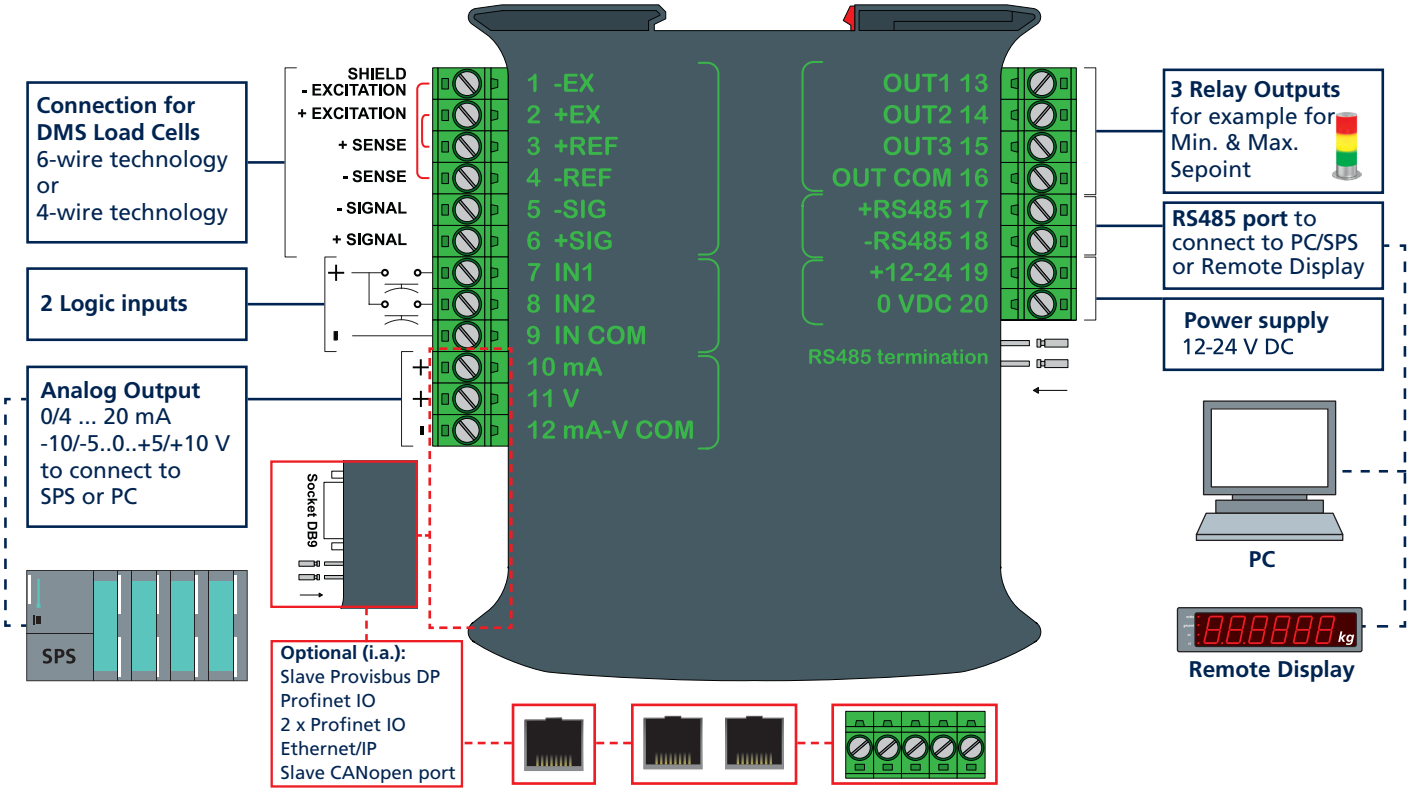
Weight Transmitter *WTB*

The WTB is a highly accurate digital scale transmitter with 24-bit AD converter, which converts the output signals of the connected load cells in a stable weight value. This versatile and extremely reliable weight transmitter shows fast and accurate weight values. The transmitter has both analog and digital outputs that provide stable measurement information. Communication is done via an RS485 interface. Programmable relay outputs and two digital logic inputs are also available as standard.The optional analog output provides propotional to the weight an analog signal that can be processed by a PLC or PC.
This weighing transmitter, with the industry standards of bus technology, enables monitoring of various production processes and is a cost-effective alternative to comparable electronics from PLC manufacturers.



TECHNICAL DETAILS

A/D Converter	24 bit (16.000.000 points) – 4,8 kHz
Power supply and consumption	12 ÷ 24 V DC ± 10% / 5 W
Input voltage range	5- 24 V DC
Divisions (with measurement range +/-10mV and sesitivity 2mV/V)	± 999999 • 0,01 µV/D
Linearity	< 0,01% full scale
Thermal drift (Analog output drift)	0,003 % full scale / °C
Load cell excitation voltage	5 V DC / 120 mA
Measurement range	± 39 mV
Max. Input signal (nominal characteristic value)	± 7 mV/V
Conversions per second	300 /s.
Display	6 digit, 7 segments, LED red + 6 signalling LED's
Decimals - Display increments	0 ÷ 4 • 1 x 2 x 5 x 10 x 20 x 50 x 100
Status Symbole	Zero, Tara, Memory status
Keyboard	Four buttons for the system calibration
Digital filter	10 Levels
Readings per second	5 - 300 Hz
Baud rate	2.400, 4.800, 9.600, 19.200, 38.400, 115.200 (bit/s)
Working temperature (B_T)	- 10 ... + 40 °C
Humidity	max. 85% r.F, condensate free
Dimensions (W x D x H)	120 x 115 x 25 mm

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