

- General-purpose weight transmitter
- RS-485 / Modbus RTU
- IP 65 (front)
- 2 relay outputs
- Current output
- Scaleable 4-20, 0-20mA
- Calibrated using theoretical characteristic or real load,
- Password protected,
- Programmable input measuring range,
- Programming by RS-485 interface,
- Programmable hystereses and delays of control outputs,
- Programmable indication filtration,
- Display brightness adjustable in 8 steps



DESCRIPTION

Weight indicator BWT94 was designed to provide weighing and control functions for industrial process systems. Device is equipped with pushbuttons which allow easy setting of tare and zero, and also switching between netto and brutto indications. Measured weight is displayed on 6 digit readable LED display with settable bright. Two relay outputs allow to use the BWT94 as controller for simple systems with batching function. Built-in analog output and RS-485 interface enable remote controlling of the device by a host system if required. The firmware makes possible to calibrate the device in two ways: using theoretical characteristic of the sensor or using real load put on the sensor.

TECHNICAL SPECIFICATIONS

Power supply: 19V-50V DC; 16V-35V AC or 85-260V AC/DC,
Power consumption: max. 4,5 VA; 19V ÷ 50V DC max. 4,5 W

Display: LED, 6 x 13 mm, red (green - on request) brightness adjustable in 8 steps

Outputs: 2 relays 1A/250V AC (cosφ=1)

Transducer power supply output: 24V DC +5%, -10% / max. 100 mA, stabilized.

Active current output: Operating range max. 0/4 - 24 mA, load resistance max. 700Ω, 13 bit resolution

Communication interface: RS-485, 8N1 and 8N2, 1200 bit/s ÷ 115200 bit/s, Modbus RTU, not galvanically insulated from measuring inputs

Measurement Input: Tensometer load cells 4-wire or 6-wire programmable sensitivity selectable up to 2 mV/V or 4 mV/V/load cells power supply: 4,6 V ± 10%, I_{max} ~ 60 mA connections: max. 4 load cells 350Ω (min. resultant impedance of 80Ω)

Programmable digital Input: Separated, low level 0V ÷ 1V; high level 10V ÷ 30V (about 5.5 mA @ 24V)

Max. display divisions: 10 000 d

Tare range: 100% of selected measurement range

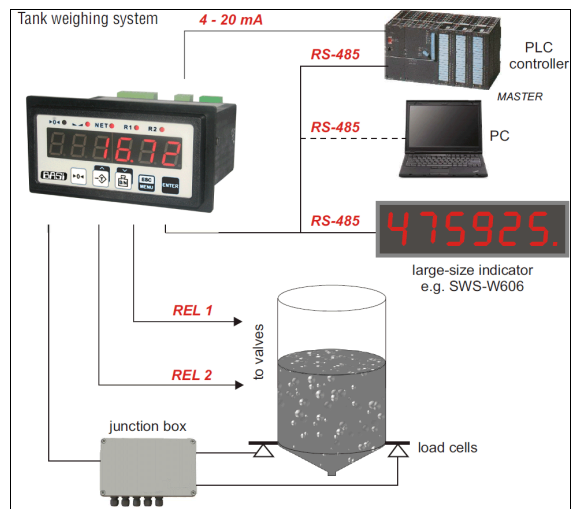
Operating temperature: -10°C ÷ +50°C

Storage temperature: -10°C ÷ +70°C

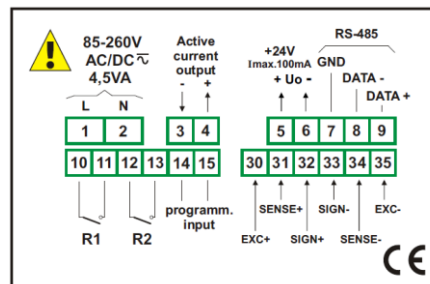
Protection class: IP 65 (front side), IP 65 frame for panel cut-out sealing in standard; IP 20 (case and connection clips)

Case material: NORYL - GFN2S E1

Case dimensions: 96 x 48 x 102 mm



CONNECTION DIAGRAM



ORDER INFORMATION

BWT94-1G33-1-X-011

power supply:

3 : 24V AC/DC

4 : 85V - 260V AC/DC



Accessories:

BP-4 or BP-6
load cell junction box