

## SWI-94

- ▣ economic general-purpose weight indicator
- ▣ 2 relay outputs
- ▣ active current output
- ▣ RS-485 / Modbus RTU
- ▣ high protection class IP 65 (front side)

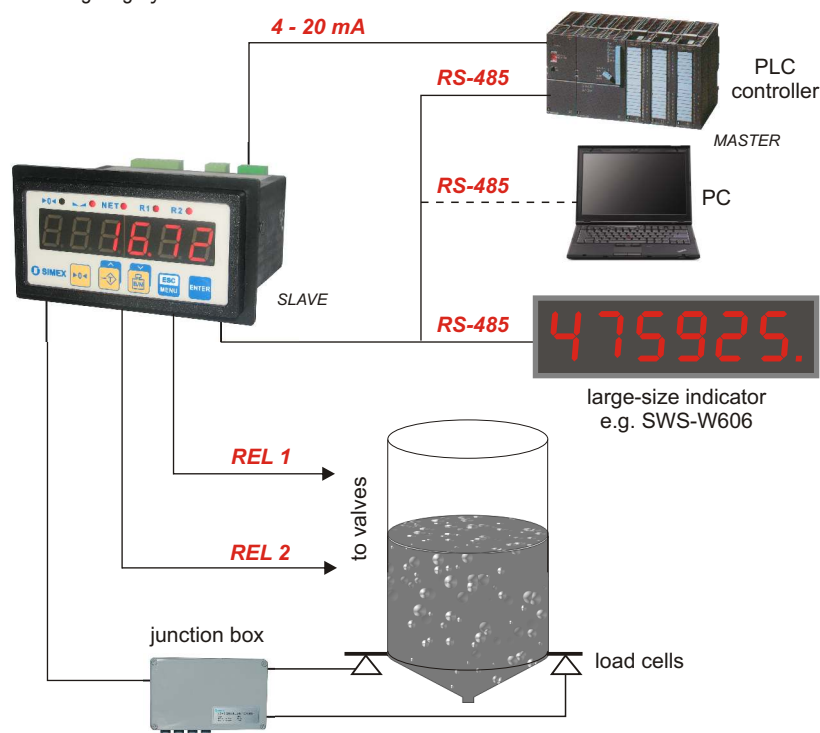


Weight indicator **SWI-94** was designed to provide weighing and control functions for industrial process systems. Device is equipped with pushbuttons which allow easy setting of tare and zero, and also switching between netto and brutto indications. Measured weight is displayed on 6 digit readable LED display with settable bright. Two relay outputs allow to use the **SWI-94** 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.

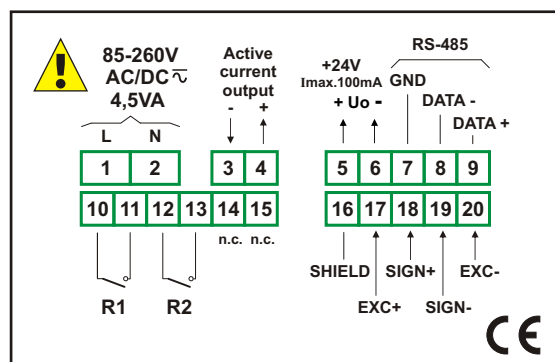
- programmable input measuring range,
- programming by RS-485 interface,
- calibrated using theoretical characteristic or real load,
- programmable hystereses and delays of control outputs,
- password protected,
- programmable indication filtration,
- display brightness adjustable in 8 steps,
- overload-protected current output.

### Typical applications

Tank weighing systems.



### Exemplary pin assignment



### Ordering

SWI-94-1B33-1-X-011

power supply:

3 : 24V AC/DC

4 : 85V - 260V AC/DC

### Technical data

**Power supply:** 19V ± 50V DC; 16V ± 35V AC or 85 ± 260V AC/DC, all separated

**Power consumption:** for 85 ± 260V AC/DC and 16V ± 35V AC power supply:

max. 4,5 VA; 19V ± 50V DC power supply: max. 4,5 W

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

**Input:** tensometer, programmable sensitivity selectable up to 2 mV/V or 4 mV/V

load cells power supply: 4,6 V ± 10%, Imax ~ 60 mA,

load cells connections: 4-wire technique, max. 4 load cells 350 Ω

**Max. display divisions:** 10 000 d

**Tare range:** 100% of selected measurement range

**Outputs:** 2 relays 1A/250V AC (cosφ=1)

**Transducer power supply output:** 24V DC +5%, -10% / max. 100 mA, stabilized, not insulated from measuring inputs

**Active current output:** operating range max. 0 - 24 mA, load resistance max. 700 Ω, 13 bit resolution

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

**Operating temperature:** 0°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:** board

**Case material:** NORYL - GFN2S E1

**Case dimensions:** 96 x 48 x 100 mm

**Panel cut-out dimensions:** 90,5 x 43 mm

**Installation depth:** min. 102 mm

**Board thickness:** max. 5 mm