

## pH, ORP and temperature handheld meter

- pH/mV selectable scales**
- Manual and automatic calibration**
- °C or °F temperature readout**
- Automatic/manual temperature compensation**
- Alphanumeric display**
- Logging up to 100 measures**
- High accuracy and reliability**
- Long battery life**
- Small dimensions**

This new portable instrument is the result of more than 35 years B&C Electronics experience in the pH and ORP measuring, now applied to the microprocessor and SMT technology that reduces the dimension of the instrument and makes easy the use.

The instrument takes the advantages of the B&C Electronics technology used in the latest industrial instruments, maintaining the accuracy, the reliability over a long period of time.

The big dimensions of the alphanumeric display assists the operator by sending messages during the various phases of using.

The three key in the front panel feature additional functions when pressed for few seconds.

The installed firmware provides:

- easy access to the main functions,
- operating parameters selection,
- software filter,
- logging and visualization of the measures,
- last calibration date,
- automatic switch off with programmable timing.

### Accessories and sensors

**SZ 142 - SZ 161 - SZ 1031** Recommended pH sensors

**SZ 251** Recommended ORP sensors

**SP 51501 - SP 51511** Recommended temperature probes

**SZ 952** Standard solution 4,01 pH 250 cc

**SZ 954** Standard solution 7,00 pH 250 cc

**SZ 956** Standard solution 9,21 pH 250 cc

**SZ 961** Standard solution ORP 220 mV 250 cc

**BC 922** Portable case for one controller,  
two sensors and one temperature probe.



### Technical specifications

#### pH electrode (glass/reference)

**Zero:** ± 2.00 pH

**Sensitivity:** 80/110 %

**Calibration:** manual/automatic

#### ORP electrode

**Zero:** ± 100 mV

**Sensitivity:** 80/110 %

**Calibration:** manual/automatic

**pH range:** -1.00 / 15.00 pH

**Resolution:** 0.01 pH

**ORP range:** -1200/1200 mV

**Resolution:** 1 mV

#### Temperature

**Input:** RTD Pt1000 three wires

**Temperature unit:** °C/°F

**Temperature compensation:** manual/auto with RTD

**Temperature range:** -10.0/110.0 °C - 14.0/230.0 °F

**Resolution:** 0.1 °C/°F

**Zero:** ± 2.0 °C - ± 3.6 °F

**Manual temperature:** 0.0 / 100.0 °C - 32.0 / 212.0 °F

#### Setup parameters

**Sensor type:** pH/ORP

**Response time 90%:** 0/10 seconds

**Temperature unit:** °C/°F

**Auto OFF time:** 30/600 seconds

#### General specifications

**Operating temperature:** 0/60 °C

**Relative humidity:** 20/95 % non condensing

**Power supply:** 9V battery (6LR61 680 mAh)

**Battery life:** 350 hours approx. (continuous operation)

**Weight:** 180 g approx. battery included

**Dimensions:** 125 x 75 x 25 mm

**Display:** LCD 8x1 characters 11.97 x 4.97 mm

**Messages:** running on display (title + variable)

**Memory type:** non volatile EEPROM

**Record numbers:** 0/99

The technical specifications may be changed without notice

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Ижевск (3412)26-03-58

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Калининград (4012)72-03-81

Калуга (4842)92-23-67

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Пенза (8412)22-31-16

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Ставрополь (8652)20-65-13

Тверь (4822)63-31-35

Томск (3822)98-41-53

Тула (4872)74-02-29

Тюмень (3452)66-21-18

Ульяновск (8422)24-23-59

Уфа (347)229-48-12

Челябинск (351)202-03-61

Череповец (8202)49-02-64

Ярославль (4852)69-52-93

## EC, TDS and temperature handheld meter

**Selectable conductivity scales:  $\mu\text{S}$ ,  $\text{mS}$**   
**Selectable TDS scales: ppm, ppt**  
**Manual and automatic calibration**  
 **$^{\circ}\text{C}$  or  $^{\circ}\text{F}$  temperature readout**  
**Automatic/manual temperature compensation**  
**Alphanumeric display**  
**Logging up to 80 measures**  
**High accuracy and reliability**  
**Long battery life**  
**Small dimensions**

This new portable instrument synthesizes more than 35 years B&C Electronics experience in the electric conductivity measuring, now applied to the microprocessor and SMT technology that reduces the dimension of the instrument and makes easy the use.

The instrument takes the advantages of the B&C Electronics technology used in the latest industrial instruments, maintaining the accuracy, the reliability over a long period of time.

The big dimensions of the alphanumeric display assists the operator by sending running messages during the using.

The keys in the front panel feature a double function when pressed for few seconds.

The installed firmware provides:

- easy access to the main functions,
- operating parameters selection,
- memorization and visualization of the measures,
- automatic switch off with programmable timing.

### Accessories and sensors

#### SZ 3252

Three black platinum band electrodes,  $K=1 \text{ cm}^{-1}$ , epoxy body, cable 1.5 m with BNC connector.

#### SP 51501 - SP 51511

Temperature probes

#### BC 922

Portable case for one controller, two sensors and one temperature probe.

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### Technical specifications

**Sensor type:** 2 electrodes cell (4 electrodes as option)

**Zero:**  $\pm 10 \%$

**Sensitivity:** 60/160  $\%$

**Calibration:** manual/automatic

**EC scales:** 20.00, 200.0, 2000  $\mu\text{S}$ , 20.00, 200.0  $\text{mS}$

**TDS scales:** 10.00, 100.0, 1000 ppm, 10.00, 100.0 ppt

#### Temperature

**Input:** RTD Pt1000 three wires

**Temperature unit:**  $^{\circ}\text{C}/^{\circ}\text{F}$

**Temperature compensation:** manual/auto with RTD

**Temperature range:**  $-10.0/110.0^{\circ}\text{C}$  -  $14.0/230.0^{\circ}\text{F}$

**Resolution:** 0.1  $^{\circ}\text{C}/^{\circ}\text{F}$

**Zero:**  $\pm 2.0^{\circ}\text{C}$  -  $\pm 3.6^{\circ}\text{F}$

**Manual temperature:** 0.0/100.0  $^{\circ}\text{C}$  - 32.0/212.0  $^{\circ}\text{F}$

**Reference temperature:** 20/25  $^{\circ}\text{C}$

**Temperature coefficient:** 0.00/3.50  $\%/^{\circ}\text{C}$

#### Setup parameters

**TDS:** on/off

**EC/TDS factor:** 0.45/1.00

**Response time 90%:** 0/10 seconds

**Temperature unit:**  $^{\circ}\text{C}/^{\circ}\text{F}$

**Reference temperature:** 20/25  $^{\circ}\text{C}$

**Temperature coefficient:** 0.00/3.50  $\%/^{\circ}\text{C}$

**Auto OFF time:** 30/600 seconds

#### General specifications

**Operating temperature:** 0/60  $^{\circ}\text{C}$

**Relative humidity:** 20/95  $\%$  non condensing

**Power supply:** 9V battery (6LR61 680 mAh)

**Battery life:** 350 hours approx. (continuous operation)

**Weight:** 180 g approx. including battery

**Dimensions:** 125 x 75 x 25 mm

**Display:** LCD 8x1 characters 11.97 x 4.97 mm

**Messages:** running on display (title + variable)

**Memory type:** non volatile EEPROM (100k write)

**Record numbers:** 0 / 79

The technical specifications may be changed without notice

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