





BWB+ISI Legacy pH/ORP Technologies

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# OCPF81/82 - Technical Information

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Compact pH and ORP SENSORS with ¾" MNPT housing for flow and immersion installation

For process applications, industrial water and wastewater











Legacy Technology

## OCPF81/82 - Technical Information

## **Application**

- · Process monitoring and control
- · Industrial and municipal wastewater treatment
- · Water treatment
- Mining processes (flotation and leaching processes)

#### Your benefits

- Second electrolyte bridge for improved protection against electrode poisons such as S2- or CN- ions
- Protection guard against damage
- Threaded connection NPT 3/4" top and bottom for easy installation at user end
- OCPF81: Suitable for measurements within pH range 0 to 14 and within temperature range 0 to 110°C (32 to 230°F)
- OCPF82: Suitable for measurements within ORP range -1500 mV to 1500 mV
- Available with flat membrane for viscous, fibrous media.
   Order P/N OCPF81-LH21E21-ISI
- FDA approved thermoplastic molded body
- Millions produced over time. Over 100,000 in service currently

#### Input

#### Measured variables

pH value Temperature ORP

#### Measuring range

pH 0 to 14 Temperature 0 to 110°C (32 to 230°F)

ORP:

-1500 to 1500 mV

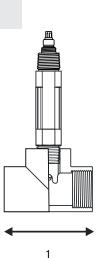
Temperature 0 to 110°C (32 to 230°F)

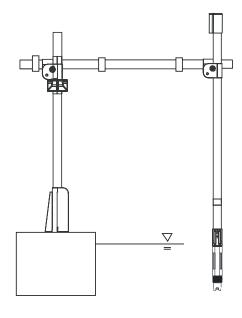
Please note the process operating conditions.

#### Installation

- 1 Flow installation
- 2 Immersion installation

Make sure to follow the installation instructions in the Operating Instructions of the used assembly.





### **Environment**

Ambient temperature NOTICE

Danger of frost damage

The sensor must not be used at temperatures below 0°C (32°F).

**Storage temperature** 0 to 50°C (32 to 120°F)

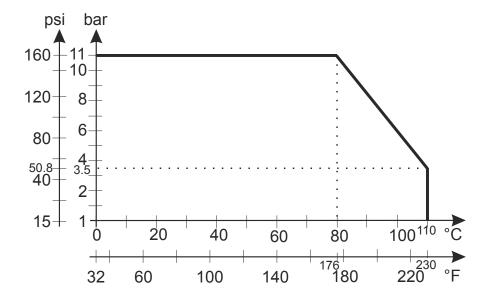
**Degree of protection** Fixed cable version: IP67

#### **Process**

**Process temperature** 0 to 110°C (32 to 230°F)

Process pressure 1 to 11 bar (15 to 160 psi), absolute

#### Pressure temperature load curve



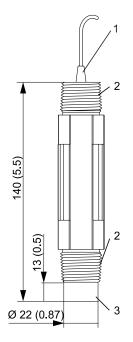
**Minimum conductivity** Min. 50 μS/cm



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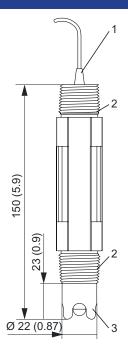
#### **Mechanical construction**

#### Design, dimensions



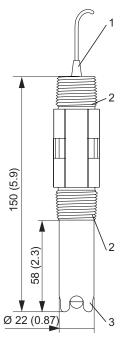
Fixed cable, short shaft, flat membrane

- 1 Fixed cable
- 2 NPT ¾" thread
- 3 Flat membrane



Fixed cable, short shaft, protection guard

- 1 Fixed cable
- 2 NPT ¾" thread
- 3 Protection guard



Fixed cable, long shaft, protection guard

- 1 Fixed cable
- 2 NPT ¾" thread
- 3 Protection guard

Weight

**Materials** 

 $0.27\ to\ 0.91\ kg\ (0.6\ to\ 2.0\ lbs,\ depending\ on\ version\ and\ without\ cable)$ 

Housing, electrode shaft PF

pH electrode (in contact with medium)

Lead-free membrane glass,

suitable for process applications

ORP electrode (in contact with medium):

KN03 and KCI/AgCI

Double chamber reference system:
Process connection

NPT 3/4"

Platinum