

# 8206 Transmitter

## Digital remote O.R.P. transmitter



- Panel or wall mounting version
- Compatible with most common O.R.P. sensors, directly connected
- Fully configurable O.R.P. transmitter for all kinds of O.R.P.-measurement tasks
- Multi language, menu-guided operation

Type 8206 can be combined with...



**Type 8203 + 8200**  
O.R.P. sensor



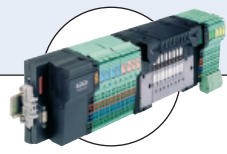
**Type 6642**  
Solenoid valve



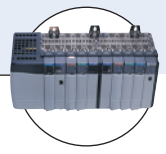
**Type 8802**  
Process control valve



**Type 2030**  
On/Off Diaphragm valve



**Type 8644**  
Valve islands



**PLC**

The O.R.P. transmitter is available for panel or wall mounting.



■ The panel-mounted version consists of an electronic module 8206 integrated in a front-cover. The associated separate O.R.P. sensor consists of a O.R.P. probe Type 8203 mounted into a Bürkert probe holder Type 8200 (max. 10 m) which can be installed into pipes by using INSERTION Type S020 fittings or using its own particular connection.

The output signals are provided on a terminal strip.



■ The wall-mounted version consists of an electronic module 8206 in an IP65 enclosure. The associated separate O.R.P. sensor consists of a O.R.P. probe Type 8203 mounted into a Bürkert probe holder Type 8200 (max. 10 m) which can be installed into pipes by using INSERTION Type S020 fittings or using its own particular connection.

The output signals are provided on a terminal strip via cable gland.

The simulation mode allows easy and fast verifying of the output signals prior to start up.

General data	
<b>Compatibility</b>	Bürkert O.R.P. sensor
<b>Materials</b>	PC (panel-mounted version); ABS (wall-mounted version) Polyester / Stainless steel Cable glands PA
<b>Display</b>	15x60 mm, 8-digit LCD, alphanumeric, 15 segments, 9 mm high
<b>Electrical connection</b>	Terminals (panel-mounted version) or terminals via 5 cable glands M16x1.5 (wall-mounted version) shielded cable with 1.5 mm <sup>2</sup> max. cross-section

Electrical data	
<b>Power supply</b>	Panel-mounted version Wall-mounted version
	12...30 V DC, filtered and regulated 12...30 V DC, filtered and regulated or 115/230 V AC - 50/60 Hz (see technical specifications 115/230 V AC)
<b>Current consumption with sensor</b>	≤ 80 mA - transmitter with relays ≤ 20 mA - transmitter without relay
<b>Sensor input</b>	Analog signal from O.R.P. probe
<b>Cable length</b>	max. 10 m (distance between sensor and transmitter)
<b>Output</b>	4...20 mA configurable (3-wire with relays, 2-wire without relay), proportional to O.R.P. max. loop impedance: 1000 Ω at 30 V DC; 750 Ω at 24 V DC; 250 Ω at 15 V DC Relays (option) 2 relays, freely configurable, 3A, 230 V AC

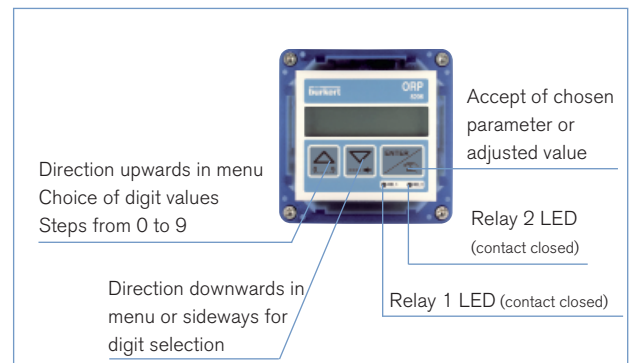
Environment	
<b>Ambient temperature</b>	0°C to +60°C (32°F to 140°F) (Operation and storage)
<b>Relative humidity</b>	≤ 95%, without condensation

Standard	
<b>Protection class</b>	IP65 (panel-mounted and wall-mounted version) IP20 (panel-mounted version, inside the cabinet)
<b>Standard and directives</b>	EN 61000-6-3, EN 61000-6-2 EN 61010-1 EN 60068-2-6 EN 60068-2-27
Technical specifications 115/230 VAC	
<b>Voltage available in the device</b>	27 V DC regulated, max. current: 250 mA integrated protection: fuse 250 mA temporised power: 6 VA

## Operation and display

Customized adjustments, such as measuring range, engineering units can be carried out menu-supported on site via a multilingual display. The operation is classified according to three levels:

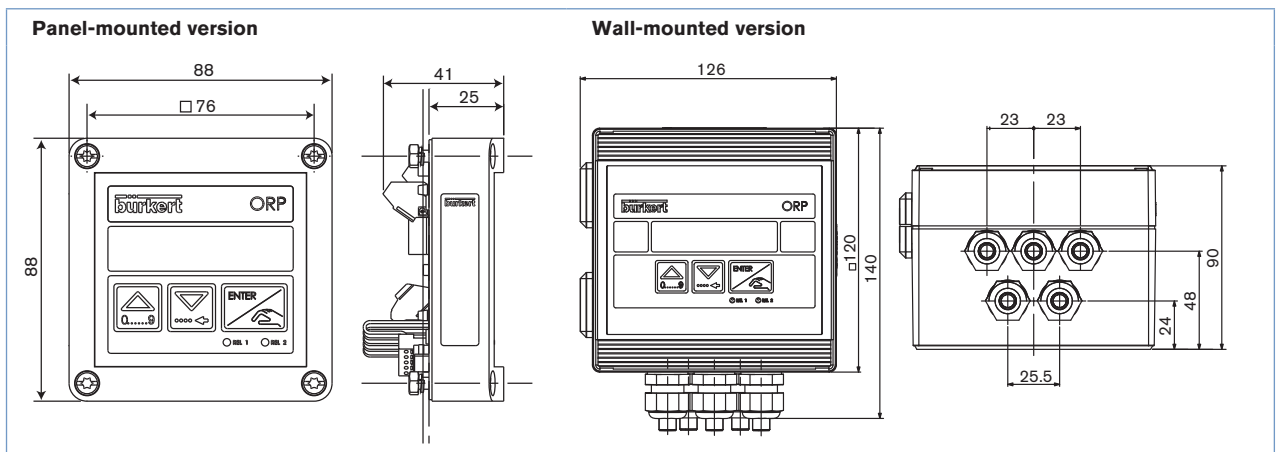
Main Menu	Calibration Menu	Test Menu
<ul style="list-style-type: none"> <li>- O.R.P.</li> <li>- output current</li> <li>- HOLD function</li> <li>- O.R.P. probe calibration</li> </ul>	<ul style="list-style-type: none"> <li>- language</li> <li>- measuring range 4-20 mA</li> <li>- relay parameter definition</li> <li>- filter selection</li> </ul>	<ul style="list-style-type: none"> <li>- Offset</li> <li>- Span</li> <li>- simulation of O.R.P.</li> </ul>



## Installation

The 8206 O.R.P. transmitter has to be installed into a cabinet or on a wall. A O.R.P. sensor from Bürkert must be associated with this O.R.P. transmitter. The O.R.P. sensor in its extended version can also be associated with an industrial immersion kit, which allows O.R.P. measurement into tanks or containers. The following lengths are available: 500, 1000, 1500, 2000 mm. Special lengths on request. The sensor consisting of a O.R.P. probe Type 8203 and a probe holder Type 8200 must be ordered separately (see separate data sheets Type 8200, Type 8203).

## Dimensions [mm]



**Ordering chart for transmitter Type 8206**

A complete O.R.P. transmitter Type 8206 consists of a O.R.P. transmitter Type 8206 and a Bürkert O.R.P. sensor.

The following information is necessary for the selection of a complete device:

*When you click on the orange box "More info.", you will come to our website for the resp. product where you can download the data sheet.*

- **Item no.** of the desired O.R.P. transmitter **Type 8206** (wall-mounted or panel-mounted version - see ordering chart, below)
- **Item no.** of the desired O.R.P. sensor made of O.R.P. probe **Type 8203** [More info.](#) and probe holder **Type 8200** (see separate data sheet) [More info.](#)

→ You have to order the components separately.

**O.R.P. transmitter Type 8206 panel or wall-mounted version**

Specifications	Voltage supply	Output	Relays	Sensor version	Electrical connection	Item no.
Panel-mounted	12...30 V DC	4...20 mA	None	Type 8200	Terminal strip	429 088
			2	Type 8200	Terminal strip	430 754
Wall-mounted	12...30 V DC	4...20 mA	None	Type 8200	Cable glands	430 755
			2	Type 8200	Cable glands	430 756
	115/230 V AC	4...20 mA	None	Type 8200	Cable glands	430 757
			2	Type 8200	Cable glands	430 758

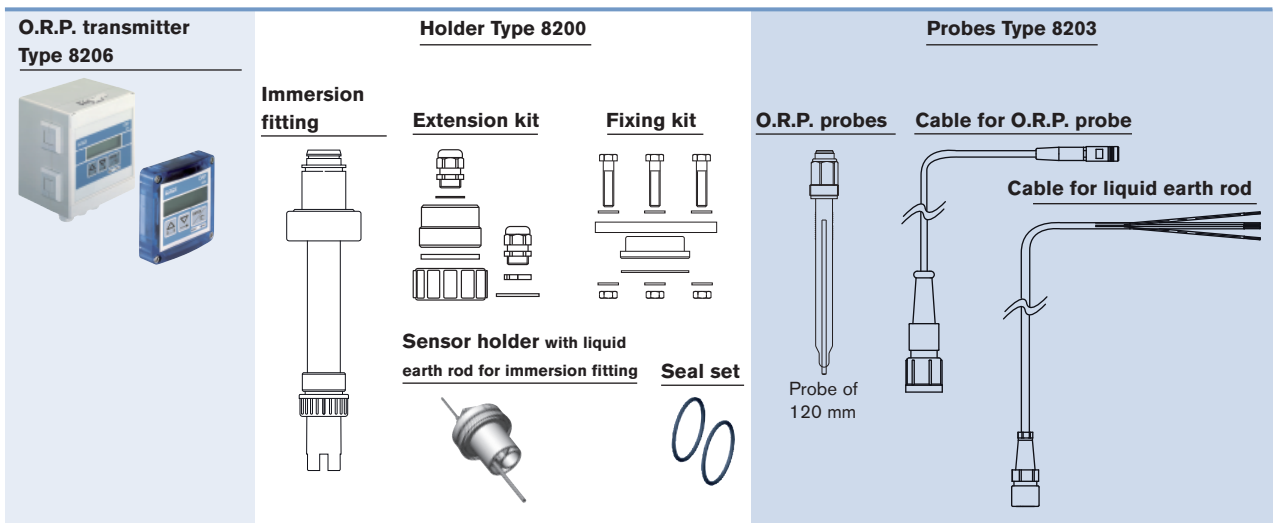
**Tank installation with a O.R.P. transmitter Type 8206.**

A O.R.P. transmitter Type 8206 for tank installation is made up of a O.R.P. transmitter Type 8206, an immersion kit which is consisting of an immersion fitting, an extension kit for immersion fitting, a fixing kit (flange DN65 with stainless steel screws), a sensor holder with liquid earth rod, an O.R.P. probe, a shielded cable for O.R.P., a shielded cable for with liquid earth rod and a seal

The following information is necessary for the selection of a complete device:

- **Item no.** of the desired remote O.R.P. transmitter **Type 8206** (wall-mounted or panel-mounted version - see ordering chart, above)
- **Item no.** of the immersion fitting (see separate data sheet Type 8200)
- **Item no.** of the extension kit for the immersion fitting (see separate data sheet Type 8200)
- **Item no.** of the fixing kit (flange DN65 with stainless steel screws - see separate data sheet Type 8200) [More info.](#)
- **Item no.** of the sensor holder with liquid earth rod, (see separate data sheet Type 8200)
- **Item no.** of the seal set if EPDM desired (see separate data sheet Type 8200)
- **Item no.** of the 120 mm O.R.P. probe (see separate data sheet Type 8203)
- **Item no.** of the shielded cable for O.R.P. (see separate data sheet Type 8203) [More info.](#)
- **Item no.** of the Pt1000 shielded cable for liquid earth rod, (see separate data sheet Type 8203)

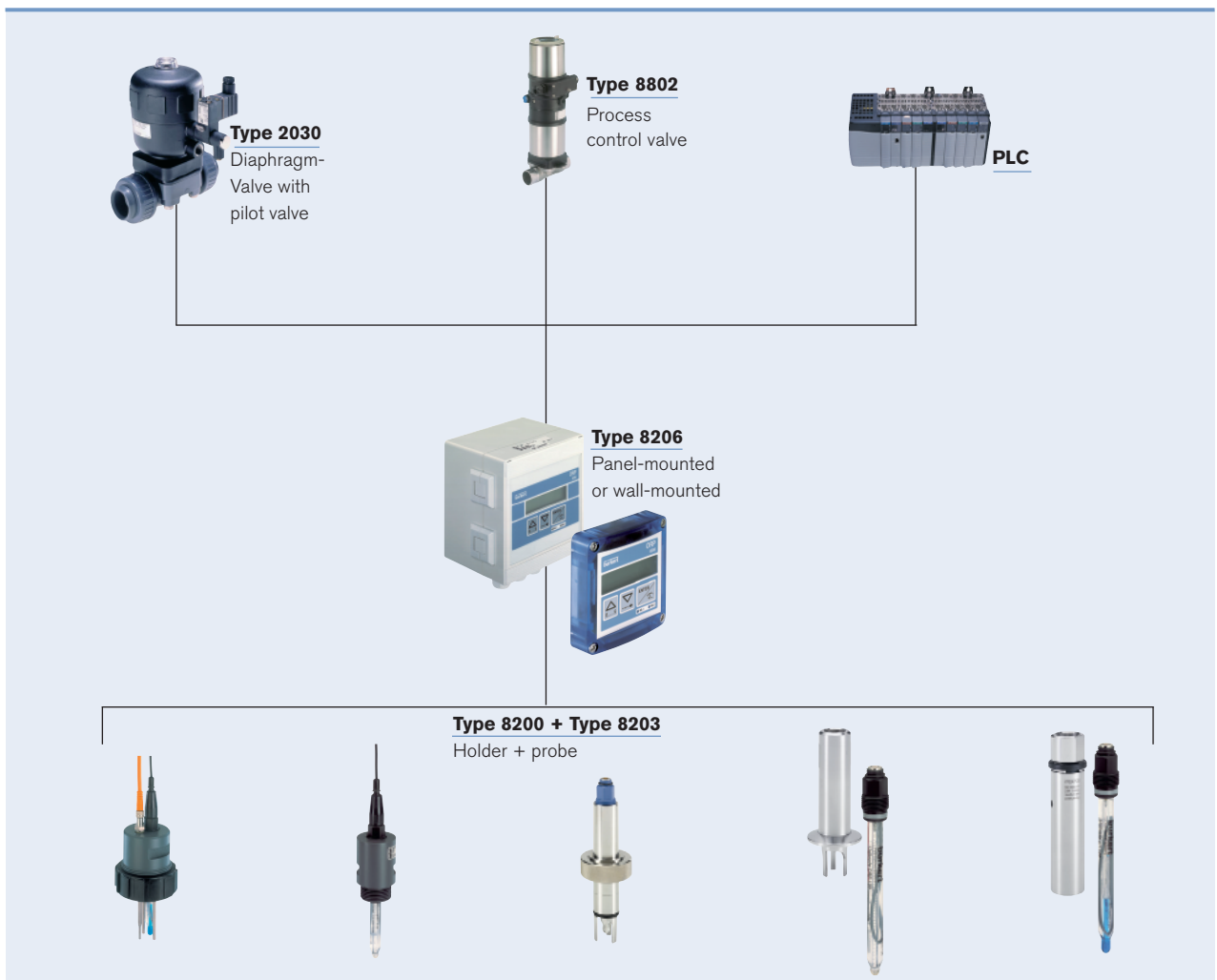
→ You have to order the components separately.



**Ordering chart for accessories for O.R.P. transmitter Type 8206**

Description	Item no.
Set with 2 cable glands M20x1.5 + 2 neoprene flat seals for cable gland or plug + 2 screw-plugs M20x1.5 + 2 multiway seals 2x6 mm	449 755
Set with 2 reductions M20x1.5 /NPT1/2" + 2 neoprene flat seals for cable gland or plug + 2 screw-plugs M20x1.5	551 782
Set with 1 stopper for unused cable gland M20x1.5 + 1 multiway seal 2x6 mm for cable gland + 1 black EPDM seal for the sensor + 1 mounting instruction sheet	551 775

**Interconnection possibilities with other Bürkert devices**



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To find your nearest Bürkert facility, click on the orange box →

[www.burkert.com](http://www.burkert.com)

In case of special application conditions, please consult for advice.

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