

- **High-resistance amplifier for safe pH value acquisition**
- **Standard signal output 4-20 mA**
- **Electrode connection via socket**
- **Simple calibration by means of a rotary potentiometer**



The ECOTRANS pH measurement transmitter records measurements in a range from pH 2 to pH 12 and converts these into a 4-20 mA standard signal (pH 2 = 4 mA, pH 12 = 20 mA). The current measured value will be displayed by a 4-digit LCD display.

The calibration is carried out by using the respective buffer solutions (pH 4 and pH 7 for acidic media, pH 9 and pH 7 for alkaline media) by means of a calibration potentiometer.

**Technical Data:**

Power supply:	230 V, 50/60 Hz (optional 110 V/AC, 24 V/AC, 24 V/DC)
Protection class:	IP 65
Inputs:	SN6 socket for pH measuring cable
Output:	4-20 mA
Power consumption:	3 W
Measurement accuracy:	+/-1% of the upper range value
Ohmic resistance:	max. 750 Ω
Resistance:	Chemically resistant plastic housing (ABS)
Permissible ambient temperature:	0° C to +45° C
Display:	LCD, 3.5 digits
Dimensions (H * B * T):	125 x 125 x 75 mm
Weight:	0.6 kg

Ordering Data:**Article****Material No.**

Measuring Transmitter ECOTRANS pH

418851207



Article

Material No.

pH-Combination Electrode

with screw-in thread PG 13.5 and plug-in screw connection, glass shaft = 120 mm, Ø = 12 mm, collector Ag/AgCl, sintered.

pH-Combination Electrode

with dirt-repelling PTFE-circular diaphragm

pH range: 0..12
 Temperature range: -5° C ...+80° C
 Pressure: up to 6 bar
 Minimum conductivity: 100 µS/cm

418853008

pH-Combination Electrode

with 3 ceramic diaphragms

pH range: 0..12
 Temperature range: -5° C ...+80° C
 Pressure: up to 3 bar
 Minimum conductivity: 100 µS/cm

418853011

pH-Combination Electrode

with ceramic diaphragm

pH range: 1..14
 Temperature range: +10° C ...+130° C
 Pressure: up to 3 bar
 Minimum conductivity: 100 µS/cm

418853016



Impedance converter

We recommend the installation of the impedance converter in order to prevent negative influences to the measurement signal of pH-measurement due to electrical fields of near live wires, dirt or moistures.

The impedance converter is also used to short-out higher distances (more than 10 m) between measurement chain and measurement unit.

The impedance converter is screwed onto the measurement chain directly.

The delivery performance includes also an battery (live approx. 5 years).

Internal resistance: $R_i \leq 5 \Omega$
 Permitted surrounding temp.: -10...+50° C
 Permitted storing temp.: -10...+60° C
 Housing: PVC
 Length: 108 mm
 Weight: 0.09 kg

418853005



Connection cable with rotating matching plug for pH measurement

Length 2 m
 Length 5 m

418439450

418439451

Article **Material No.**

Buffer solutions



pH 4,01	20 ml	418853125
pH 7,00	20 ml	418853126
pH 9,21	20 ml	418853127
pH 4,01	1 l	418853121
pH 7,00	1 l	418853122
pH 9,21	1 l	418853123



Detergent for Combination pH and ORP/Redox Electrodes 418853128
 Pepsin-hydrochloric acid solution 250 ml

Angle seat flow fitting 418853202
 for Combination pH or ORP/Redox Electrodes



Material: transparent PVC
 Operational temp.: max. 60° C
 Pressure resistance: 10 bar (at 20° C)
 5 bar (at 40° C)
 1 bar (at 60° C)
 Nominal diameter: DN 25, 1" (d = 32)
 Connections: d32 adhesive muffs

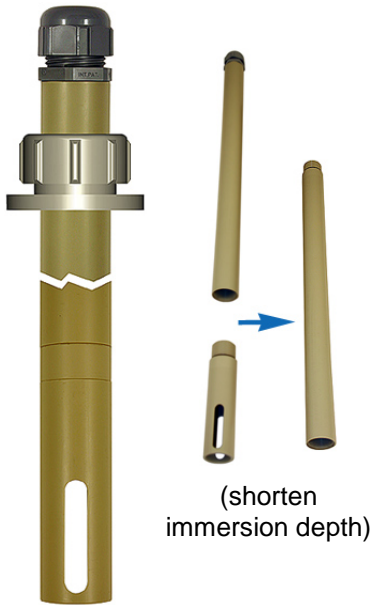


Flow Fitting 418853213
 for 3 measuring probes

Material: PP
 Angle support: stainless steel
 Operational temperature: max. 80° C
 Pressure resistance: 10 bar (at 20° C)
 Connection thread: G1/2
 Hose connection: 6/12 mm (int. Ø/ext. Ø)

Article

Material No.



Immersion fitting including fixing flange

287430

for combination pH or ORP/Redox electrodes

Immersion depth can be shortened by taking out pipe section.

Material:	PP
Operational temperature:	max 80° C
Pipe diameter:	32 mm
Usable immersion depth max.:	980 mm*
Usable shortened immersion depth:	525 mm
Fixing flange Ø:	70 mm

* optional elongation (accessories on request)

(shorten immersion depth)



Keep-wet-tray

287523

for pH-immersion fitting

The electrode is automatically kept damp when the tank fluid level drops

Material:	PP
Operational temperature:	max. 60° C
Suitable for pipe diameter:	32 mm