

- **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 $\Omega$
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:**

<b>Article</b>	<b>Material No.</b>
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  
pH 7,00     20 ml  
pH 9,21     20 ml

418853125  
418853126  
418853127

pH 4,01     1 l  
pH 7,00     1 l  
pH 9,21     1 l

418853121  
418853122  
418853123



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

418853128

**Angle seat flow fitting**

for Combination pH or ORP/Redox Electrodes

418853202



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**  
for 3 measuring probes

418853213

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