

Versatronic Cooling Water Treatment Spare parts measuring and control device



Ordering data single components:



Article	Article no.
Basic unit	

Versatronic basic unit incl. operating instructions

155201



Measuring module

Measuring module Plug-in card Ci (inductive conductivity)	255250
Measuring module Plug-in card Cr (conductive conductivity)	255251
Measuring module Plug-in card pH/Redox	255252



Input Plug-in card

Plug-in card, universal input	255253
Plug-in card, binary input (3 make contacts)	255254



Output Plug-in card

Plug-in card, analog output (0/4 - 20 mA)	255255
Plug-in card, binary output (1 change-over contact)	255256
Plug-in card, binary output (2 make contacts)	255257
Plug-in card, binary output (2 x PhotoMOS)	255258
Plug-in card, binary output (1 x TRIAC)	255259
Plug-in card, power supply +/-5 V, 24 V	255260



Interface Plug-in card

Plug-in card, Profibus-DP interface	255261
Plug-in card. Ethernet interface	255262



Versatronic Cooling Water Treatment Spare parts measuring and control device



Article	Article no.
USB host socket	255263
Ethernet RJ-45 plug for self-assembly	255266
Panel mounting set	255267
Cable gland set Versatronic	255268
Resistor box for Ci basic adjustment/calibration adapter	255269
USB cable with plug USB/A - USB/B, length: 3 m	255273
Software	
Setup software Versatronic (CD)	255264
Software PCA 3000	255270
Software PCC	255271
Function extension	
Unlock code for registration function	255265



Versatronic Cooling Water Treatment Spare parts / accessories Inductive Conductivity Measurement



Inductive conductivity measurement probes with integrated temperature sensor

Construction: Oval spherical cap, streamline-shaped with 8 mm meter flume

diameter

Material: PVDF

Dimensions: $39 \times 50 (Ø * h)$

Pressure resistance: PN = 10 bar at 20 °C

Temperature resistance: max. 120 °C Temperature sensor: PT100

Time of response of temperature

sensor in measurement cell: approx. 30 s (90 % value) with stainless steel sensor

Material sensor's protecting tube: Stainless steel, 1.4571 Sealing element: O-ring, EPDM 281

Length connection cable: 10 m

Type of lead: 7-pin special measurement lead Measuring lead connection: prefabricated for terminal connection

Article Material No.



Conductivity measuring probe as above, with adapter

for PP flow fitting or PVC flow fitting

Measuring probe material: PVDF Adapter material: PVDF



Calibration adaptor for conductivity basic adjustment

with simulation resistances for five measuring ranges

2551269

255202



Flow fitting
Material: PVC

Temperature resistance: up to 50 °C Connections: d40 adhesive muffs

287514



Versatronic Cooling Water Treatment Spare parts / accessories Conductive Conductivity Measurement



Article Material No.



Conductive conductivity measurement probe as described above

255143

installed in PVC flow fitting seat Temperature: max. 55 °C

Connections: d 32 adhesive muffs



Calibration box for bleeding (conductive) with simulation resistances for the measurement ranges $0 \dots 5, 0 \dots 50, 0 \dots 500 \mu \text{S/cm}$

255199



Versatronic Cooling Water Treatment Spare parts / accessories pH / Redox / Temperature Measurement



Article Material No.



pH-Combination Electrode

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

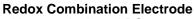
pH-Combination Electrode

418853008

with dirt-repelling PTFE-circular diaphragm

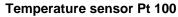
pH range: 0 - 12

Temperature range: -15 °C ...+80 °C Pressure: up to 6 bar Minimum conductivity: 100 µS/cm



418853010

with screw-in thread PG 13.5 and plug-in screw connection, glass shaft Ø = 12 mm, L = 120 mm, platinum electrode, Ag/AgCI sintered collector, in KCI gel, ceramic diaphragm Temperature up to approx. 80 °C



418853004

with PG 13.5 screw-in thread and screw connection glass shaft \varnothing = 12 mm, L = 120 mm Temperature up to 100 °C





Versatronic Cooling Water Treatment Spare parts / accessories pH / Redox / Temperature Measurement





Article Material No.

Impedance converter

418853005

We recommend the installation of the impedance converter in order to prevent negative influences on 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 a battery (live approx. 5 years).

 $\begin{array}{ll} \text{Internal resistance:} & R_i \leq 5 \; \Omega \\ \text{Permitted surrounding temp.:} & -10...+50 \; ^{\circ}\text{C} \\ \text{Permitted storing temp..:} & -10...+60 \; ^{\circ}\text{C} \\ \end{array}$

Housing: PVC Length: 108 mm Weight: 0.09 kg



Connection cable with rotating matching plug for Redox measurement

Length 2 m	418853101
Length 5 m	418853102
Length 10 m	418853103
Length 20 m	418853104

Connection cable (doubly shielded) with rotating matching plug for pH-measurement

418853106
418853107
418853108
418853109

Connection cable (3-conductor connection) with rotating matching plug for temperature-measurement Length 10 m

integrated temperature sensor Pt 100

Connection cable (doubly shielded) with on request rotating matching plug for pH electrode with

Length 10 m

255197





Material No.

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Versatronic Cooling Water Treatment Spare parts / accessories pH / Redox / Temperature Measurement

Article

pH 4,01	20 ml		418853125
pH 7,00	20 ml		418853126
pH 9,21	20 ml		418853127
pH 4,01	11		418853121
pH 7,00	1 I		418853122
pH 9,21	1 I		418853123
Redox-buffe	er solution 468 mV	250 ml	418853124



Detergent for Combination pH and ORP/Redox

Electrodes

Pepsin-hydrochloric acid solution 250 ml

418853128

418853202

418853213



Angle seat flow fitting

for Combination pH or ORP/Redox Electrodes

Material: transparent PVC
Operational temperature: 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

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)



Versatronic Cooling Water Treatment Spare parts / accessories General



Article Material No.



Motor driven ball cock

on request

Type: closed when currentless Nominal voltage: 230 V AC 50/60 Hz Nominal width DN20

Material

Armature: brass nickel-plated
Closing body and spindle: stainless steel
Spindle seal: O-ring, EPDM
PTFE, O-ring Viton