

- ▲ Supports the hygienic operation of evaporation coolers as per VDI 2047, sheet 2 resp. 42 federal regulations for emission protection law
- ▲ Large illuminated graphic display
- ▲ Simple operation by clear arranged menu guidance
- ▲ Bleeding control of up to three cooling towers is possible
- ▲ Additional monitoring measurements like pH or Redox can be integrated
- ▲ Optional: Integrated screen recorder for data recording



The Versatronic cooling water allows fully automatic desalination control and timer-controlled biocide dosing of up to three cooling towers. If the device is only designed for one or two cooling towers, two weekly timers can also be set per measuring channel for the dosing of two different biocides.

The Versatronic also includes a communication function to the circulation pump of the cooling tower.

Logic links between the functions of bleeding, biocide dosing and circulation control provide adequate process reliability.

**Functions:**

- ▲ Adjustable interlocking between biocide dosing and bleeding (preferred bleeding)
- ▲ Weekly timer with up to 4 dosing points per day (max. 28 per week) for biocide dosing, dosing duration and application time per dosing time freely selectable
- ▲ Communication with the circulation pump of the cooling circuit (control gives a running command to the circulating pump if it is not running, after starting the circulation, bleeding or biocide dosing remain blocked for an adjustable time)
- ▲ Selectable conductivity measuring principle (inductive or conductive measurement)
- ▲ Additional measurement (incl. control output) integrable
- ▲ Standard signal output (0/4 - 20 mA) for each measuring channel
- ▲ Option: Integrated screen recorder for data recording and visualization
- ▲ Option: Current screen display of the device on the PC/laptop via Ethernet interface (integrated web browser)

**Technical data:**

**Bleeding inductive**

Default setting display range: 0 – 5000 µS/cm  
 Default setting W+: 1800 µS/cm  
 Default setting Ws: 1700 µS/cm  
 Default setting W-: 1600 µS/cm

**Bleeding conductive  
(electrode measurement)**

Default setting display range: 0 - 500 µS/cm  
 Default setting W+: 180 µS/cm  
 Default setting Ws: 170 µS/cm  
 Default setting W-: 160 µS/cm

**Biocide timer**

Weekly timer, up to 4 dosing points per day selectable  
 Dosing time: 0 – 23 h 59 min 59 s  
 Application time: 0 – 23 h 59 min 59 s

**pH measurement**

Default setting display range: 0 - 14 pH  
 Preset setpoint: 7 pH

**Redox measurement**

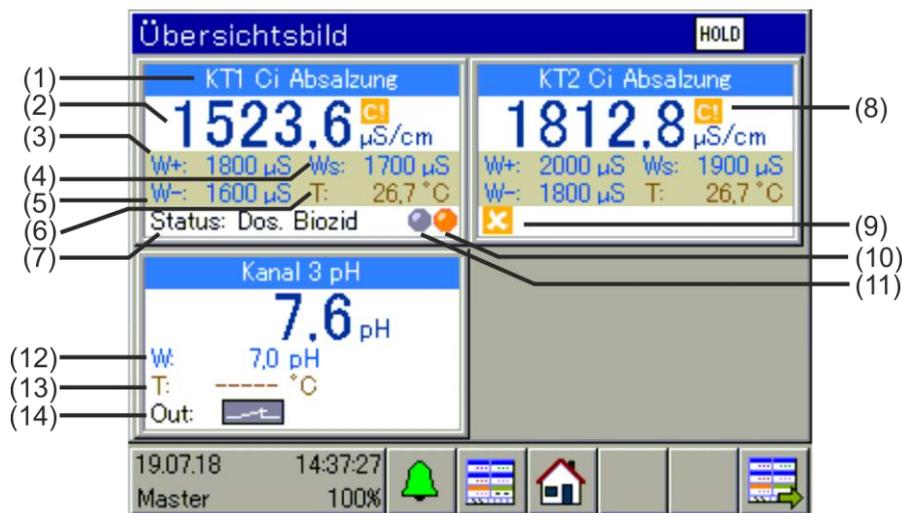
Default setting display range: 0 - 500 mV  
 Preset setpoint: 200 mV

**Outputs per measuring channel**

Bleeding: 3 make contacts  
 Additional measurement: 1 make contact

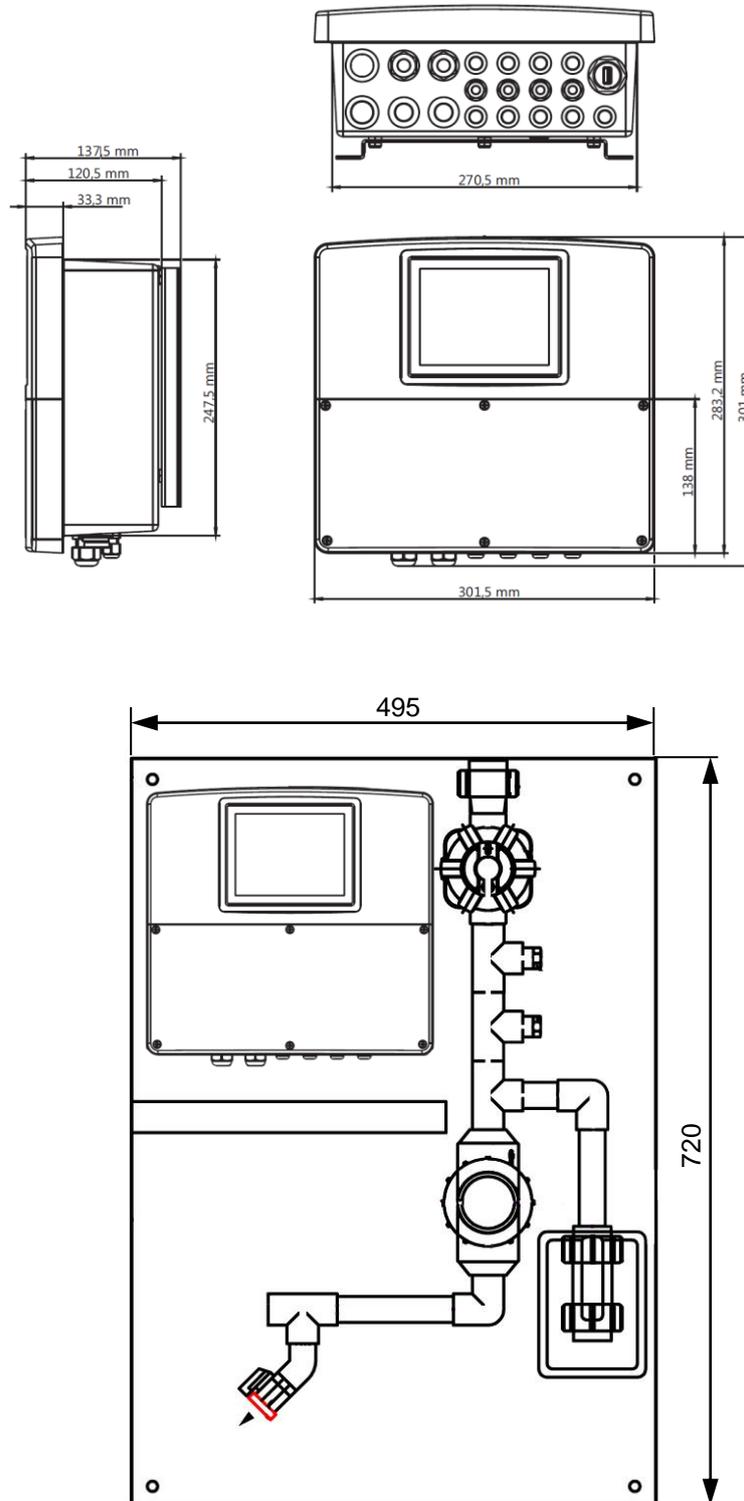
Default setting analog outputs: 4 - 20 mA

**Display of the Versatronic bleeding device**



- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>1 Name of measuring channel</li> <li>2 Reading</li> <li>3 Switch point bleeding ON</li> <li>4 Switching point pre-bleeding on</li> <li>5 Switch point bleeding OFF</li> <li>6 Temperature of cooling water</li> <li>7 Current status of cooling water treatment</li> </ul> | <ul style="list-style-type: none"> <li>8 Calibration timer expired (perform calibration!)</li> <li>9 Not approved (control output disabled)</li> <li>10 Biocide dosing flag</li> <li>11 Circulation flag</li> <li>12 Nominal value controller additional measurement</li> <li>13 Additional temperature measurement</li> <li>14 Switching state output additional measurement (output active)</li> </ul> |
|---|--|

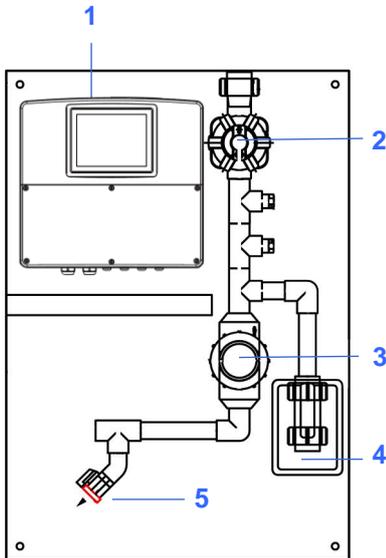
**Dimensions:**



**Complete device:**

**Article/name**

**Material No.**

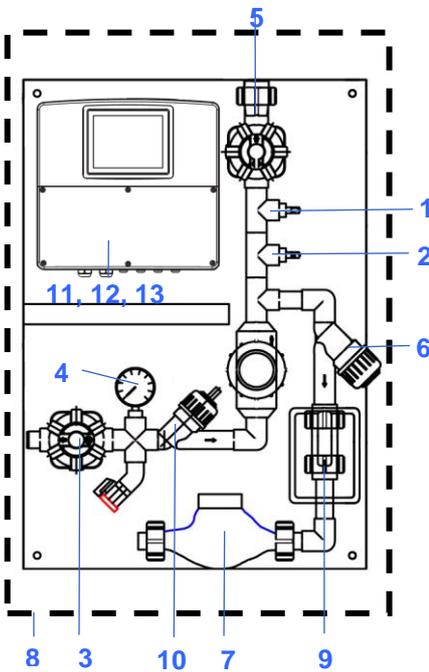


**Versatronic Cooling Water basic device**

Bleeding device Versatronic Cooling Water with pre-circulation control pre-assembled on a mounting plate (500 x 720 mm)

on request

- Extent of supply:
- Versatronic Cooling Water conductivity measuring unit (1)
  - Manual diaphragm valve (2)
  - Conductivity measuring probe (3)
  - Motor driven ball cock 230 V (4)
  - Test portion cock (5)



**Versatronic Cooling Water options**

on request

- Option 1** Metering valve 1 for biocide metering, ready-assembled
- Option 2** Metering valve 2 for metering of a 2nd biocide or a anticorrosive, ready-assembled
- Option 3** Manual diaphragm valve on inlet side
- Option 4** Manometer 0-10 bar
- Option 5** Orifice (-30 %), on outlet side
- Option 6** Filter in front of drain valve, DN 20, PVC, 0.5 mm
- Option 7** Contact water meter with pulse output 1 pulse/litre
- Option 8** Unit in a GFK cabinet with heating
- Option 9** Motor diaphragm valve instead of motor driven ball cock
- Option 10** additional pH measuring incl. probe, ready-assembled
- Option 11** Profibus interface
- Option 12** Ethernet interface
- Option 13** Screen recorder