## multiCELL - multi-channel/multi-function transmitter/ controller

- Compatible with most common flow, pH/ORP, chlorine and conductivity sensors
- Simple, intuitive user interface with a large adjustable backlit graphics display (4 user defined views)
- Hardware extension possibilities (up to 6 free slots)
- Industrial Ethernet (Modbus TCP, PROFINET or EtherNet/IP) option available
- Functionality extendable by software options

Product variants described in the data sheet may differ from the product presentation and description.

### Can be combined with

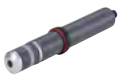
**Type 8200**
Armatures for analysis sensors

**Type 8201**
pH measuring system for hygienic applications

**Type 8203**
pH- and ORP-probes

**Type 8221**
Conductivity sensor for hygienic applications

**Type 8030**
Inline flowmeter for continuous measurements



**Type 8232**
Chlorine sensor

### Type description

The Type 8619 multichannel and multifunction transmitter/controller, available in two housing variants for panel or wall mounting, is a microprocessor transmitter/ controller for connection of sensors which deliver raw signals for pH, ORP, conductivity and flow via pulses or sensors (like pressure, level, chlorine...) which deliver analogue signals (0...20 mA, 4...20 mA, 0...2 V, 0...5 V, 0...10 V).

Type 8619 is the ideal device for measurement and control, as well as dosing processes e.g. in applications of water treatment plants (like boiler, cooling tower or reverse osmosis systems) and food and pharma plants. Modularity in hardware and software offers high flexibility for adjusting it to the applications resulting in a very good price to functionality relation. Sophisticated electronics and state of the art control algorithms ensure that optimum process control is maintained at all times with minimal operator intervention while achieving the highest quality.

Thanks to full support of the Modbus TCP, PROFINET (Conformance Class B) or EtherNet/IP, the Type 8619 can be integrated into most Industrial Ethernet environments. Therefore all important process values like measurement data, process diagnostics or device status can be easily integrated into the automation system.

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Visit product website

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# 1. General technical data

## 1.1. About the device

The Type 8619 is a multifunction device intended to display, record, transmit, exchange and regulate various physical parameters. It is available in two housing variants:

- The panel-mounted variant with a DC operating voltage, called multiCELL, is in a standardized ¼ DIN housing for 92 × 92 mm cutout to be mounted in the door of the electrical enclosure or cabinet and attached using 4 fastening elements.

- The wall-mounted variant with a DC or an AC operating voltage, respectively called multiCELL WM DC or multiCELL WM AC is in a housing to be mounted on a wall with help of mounting plate.

## 1.2. All variants

The following data applies to all variants.

| | |
|---|---|
| **Product properties** | |
| **Material** | |
| Further information on the materials can be found in chapter "4.1. Material specifications" on page 14. | |
| Front panel film | Front panel coating and keys in silicone |
| Cover | PC (transparent, polished for display) |
| Cover seal | Silicone |
| Support plate for terminal strip | Stainless steel 304 |
| Terminal strip | PBT, contact in gold-plated copper alloy |
| Protective cap | PA66 (for a slot without connection terminal) |
| Grounding screw and spring washer | Stainless steel 316 (A4) |
| Port for an RJ45 connector | • Housing: copper alloy and thermoplastic<br>• Contacts: gold-plated |
| Display | • LC graphic display<br>• Light blue backlighted<br>• 128 × 168 pixels resolution<br>• German, English, French languages |
| Keypad | • 4 soft keys [F1] [F2] [F3] [F4] for dynamic functions<br>• 1 central navigation key with [↑] [↓] [→] [←] assignments |
| Dimensions | Further information can be found in chapter "5. Dimensions" on page 16. |
| Module slot | 6 |
| Sensor monitor | Direct display and verification of measured sensor values |
| Data logger | Up to 16 values |
| Clock | Real-time clock with date |
| Memory card | SD (Secure Digital) or SDHC (Secure Digital High Capacity), max. 8 GB capacity<br><br>**Note:**<br>We recommend using the 8 GB SDHC memory card available at Bürkert (see chapter "10.6. Ordering chart accessories" on page 28) because it has been tested with and validated for the Type 8619 transmitter/controller. Another memory card may not operate correctly.<br>With 8 values recorded every 10 sec., the 8 GB card allows continuous recording over 500 days. |
| **Performance data** | |
| 4...20 mA output resolution | 6 µA |

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| | |
|---|---|
| **Electrical data** | |
| **Input/Output** | |
| Digital input | DI1, DI2<br>• Voltage: 0...36 V DC [1.)]<br>• Switching threshold:<br>– $V_{on}$: 5...36 V DC [1.)]<br>– $V_{off}$: < 2 V DC<br>• Input impedance: 3 kΩ<br>• Frequency: 0.5...2500 Hz<br>• Galvanically isolated<br>• Protected against DC polarity reversal and voltage spikes |
| Digital output | DO1, DO2<br>• Transistor<br>• Any connection in PNP or NPN mode<br>• Galvanically isolated<br>• Protected against short circuit<br>• Max. 36 V DC [1.)]<br>• Frequency: max. 2000 Hz<br>• Current consumption allowed:<br>– max. 700 mA if 1 DO per module is activated<br>– max. 1 A if the 2 DO's per module are activated<br>– max. 4 A for an Ethernet variant if the device has 4 output modules<br>• Operating modes: On/Off, Hysteresis, Window, fast PWM, PWM, PFM, Pulse |
| Analogue output | AO1, AO2<br>• Current: 4...20 mA<br>• Any connection in source or sink mode<br>• Galvanically isolated<br>• Protected against DC polarity reversal<br>• Max. loop impedance: 1100 Ω at 36 V DC [1.)], 860 Ω at 30 V DC, 610 Ω at 24 V DC, 100 Ω at 12 V DC |
| **Product connections** | |
| Electrical connection | Terminal blocks, RJ45 connector (hybrid for panel-mounted variant) |
| **Approvals and conformities** | |
| **Directives** | |
| CE directive | Further information on the CE Directive can be found in chapter "3.3. Standards" on page 13. |
| North America (USA/Canada) | • UL Listed for the USA and Canada<br>• UL Recognized for the USA and Canada<br>Further information can be found in chapter "3.4. North America (USA/Canada)" on page 13. |
| Others | Network protocol:<br>• PROFINET<br>• EtherNet/IP<br>Further information can be found in chapter "Network protocol" on page 13. |
| **Environment and installation** | |
| Ambient temperature | Storage: - 20...+ 70 °C (- 4...+ 140 °F), limited to - 10...+ 70 °C (+ 14...+ 140 °F) if memory card is inserted |
| Relative air humidity | < 85 %, without condensation |
| Height above sea level | Max. 2000 m |
| Operating condition | Continuous |
| Equipment mobility | Fixed device |
| Application range | Indoor and outdoor<br>Protect the device against electromagnetic interference, ultraviolet rays and, when installed outdoors, against the effects of climatic conditions. |

1.) If the device is mounted in a humid environment or outside, then the maximum voltage allowed is 35 V DC instead of 36 V DC.

## 1.3. Transmitter/controller multiCELL

**Note:**
If the device is mounted in a humid environment or outside, then the maximum voltage allowed is **35 V DC** instead of 36 V DC.

| **Product properties** | |
|---|---|
| **Material** | |
| Further information on the materials can be found in chapter "Panel-mounted variant" on page 14. | |
| Housing | PPO |
| Fastening element | PPO |
| **Electrical data** | |
| Operating voltage | • Marked "SUPPLY" on terminal block<br>• 12...36 V DC ± 10 %, max. 2 A, filtered and regulated<br>• Connection to main supply: permanent, through external SELV (Safety Extra Low Voltage) and LPS (Limited Power Source) power supply |
| Power source (not supplied) | Limited power source according to UL/EN 62368-1 standards or limited energy circuit according to UL/EN 61010-1 paragraph 9.4 |
| Power consumption | • Device: without additional modules and outputs not connected<br>• Max. 1.5 VA |
| Power distribution | • Marked "PWR OUT" on terminal block<br>• 12...36 V DC, max. 1.8 A<br>• Protected against polarity reversals of DC |
| Voltage supply cable | • Cable with maximum operating temperature greater than + 90 °C (+ 194 °F)<br>• Cross section of<br>– Earth connection conductor: 0.75...1.5 mm²<br>– Rigid H05(07) V-U: 0.2...1.5 mm², stripped over 7 mm, shielded cable<br>– Flexible H05(07) V-K: 0.2...1.5 mm², stripped over 7 mm, shielded cable<br>– Conductor with non-insulated lug: 0.2...1.5 mm², stripped over 7 mm, shielded cable<br>– Conductor with an insulated lug: 0.2...0.75 mm², stripped over 7 mm, shielded cable |
| **Environment and installation** | |
| Ambient temperature | Operation (with/without memory card [1.]):<br>• Only with main module: - 10...+ 70 °C (+ 14...+ 158 °F)<br>• With min. one additional module: - 10...+ 60 °C (+ 14...+ 140 °F) |
| Degree of protection | • IP65 [2.] according to IEC/EN 60529 (panel-mounted, cabinet closed)<br>• IP20 [2.] according to IEC/EN 60529 (panel-mounted, inside the cabinet)<br>• NEMA250 4X (panel-mounted, in front of the closed cabinet) |
| Installation category | Category I according to UL/EN 61010-1 |
| Pollution degree | Degree 2 according to UL/EN 61010-1 |

1.) If a different memory card is used, observe the operating temperatures specified by its manufacturer.
2.) Not evaluated by UL

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## 1.4. Transmitter/controller multiCELL WM DC

**Note:**
If the device is mounted in a humid environment or outside, then the maximum voltage allowed is **35 V DC** instead of 36 V DC.

| **Product properties** | |
|---|---|
| **Material** | |
| Further information on the materials can be found in chapter "Wall-mounted variant" on page 15. | |
| Cover screw | PVC |
| Reinforcement hinge | PA66 |
| Housing | PA66 |
| Fastening element | PA66 |
| Cable gland | PA66 |
| Protecting cover (for display) | PA66 |
| **Electrical data** | |
| Operating voltage | • Marked "12...36 V DC" on terminal block<br>• 12...36 V DC ± 10 %, max. 2 A, filtered and regulated<br>• Connection to main supply: permanent, through external SELV (Safety Extra Low Voltage) and LPS (Limited Power Source) power supply |
| Power source (not supplied) | Limited power source according to UL/EN 62368-1 standards or limited energy circuit according to UL/EN 61010-1 §9.4 |
| Power consumption | • Device: without additional modules and outputs not connected<br>• Max. 2 VA |
| Power distribution | • Marked "POWER OUT" on terminal block<br>• 12...36 V DC, max. 1.8 A<br>• Protected against polarity reversals of DC |
| Voltage supply cable | • Cable with maximum operating temperature greater than + 90 °C (+ 194 °F)<br>• External diameter: 6...12 mm (4 mm if using a multiple entry seal)<br>• Cross section of<br>– Earth connection conductor: min. 1.5 $mm^2$<br>– Rigid conductor H05(07) V-U: 0.2...1.5 $mm^2$, stripped over 7 mm, shielded cable<br>– Flexible conductor H05(07) V-K: 0.2...1.5 $mm^2$, stripped over 7 mm, shielded cable<br>– Conductor with non-insulated lug: 0.2...1.5 $mm^2$, stripped over 7 mm, shielded cable<br>– Conductor with an insulated lug: 0.2...0.75 $mm^2$, stripped over 7 mm, shielded cable |
| **Environment and installation** | |
| Ambient temperature | Operation (with/without memory card [1.]):<br>• Only with main module: - 10...+ 75 °C (+ 14...+ 167 °F)<br>• With min. one additional module: - 10...+ 60 °C (+ 14...+ 140 °F) |
| Degree of protection [2.] according to IEC/EN 60529 | IP65, IP67, if the following conditions are met:<br>• Glands body tightened with a tightening torque of 5.5 Nm ± 20 %, made at factory<br>• Glands blanked off or wired<br>• Gland nuts tightened with a tightening torque of 4.5 Nm ± 20 %<br>• Housing closed and 4 screws of cover cross tightened with a tightening torque of 1.4 Nm ± 20 % |
| Installation category | Category I according to UL/EN 61010-1 |
| Pollution degree | Degree 2 according to UL/EN 61010-1 |

1.) If a different memory card is used, observe the operating temperatures specified by its manufacturer.
2.) Not evaluated by UL

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## 1.5. Transmitter/controller multiCELL WM AC

| Product properties | |
|---|---|
| **Material** | |
| Further information on the materials can be found in chapter "Wall-mounted variant" on page 15. | |
| Cover screw | PVC |
| Reinforcement hinge | PA66 |
| Housing | PA66 |
| Fastening element | PA66 |
| Cable gland | PA66 |
| Protecting cover (for display) | PA66 |
| Protective cover of AC terminal strip | Stainless steel 304 |
| **Electrical data** | |
| Operating voltage | • Marked "110-240 V~ / 50/60 Hz" on terminal block<br>• 110...240 V AC, 50...60 Hz, max. 550 mA<br>• Integrated protection: 3.15 A time delay fuse |
| Power consumption | • Device: without additional modules and outputs not connected<br>• Max. 2 VA |
| Power distribution | • Marked "POWER OUT" on terminal block<br>• 24 V DC ± 2 %, filtered and regulated, max. 1.3 A<br>• SELV (safety extra low voltage) circuit with a non-dangerous energy level<br>• Protected against polarity reversals of DC<br>• The allowed maximal current depends on the ambient temperature: see chapter "6.1. Current temperature diagram" on page 18 |
| Voltage supply cable | • Cable with maximum operating temperature greater than + 90 °C (+ 194 °F)<br>• External diameter: 6...12 mm (4 mm if using a multiple entry seal)<br>• Cross section of<br>– Earth connection conductor: min. 1.5 $mm^2$<br>– Rigid conductor H05(07) V-U: 0.2...1.5 $mm^2$, stripped over 7 mm, shielded cable<br>– Flexible conductor H05(07) V-K: 0.2...1.5 $mm^2$, stripped over 7 mm, shielded cable<br>– Conductor with non-insulated lug: 0.2...1.5 $mm^2$, stripped over 7 mm, shielded cable<br>– Conductor with an insulated lug: 0.2...0.75 $mm^2$, stripped over 7 mm, shielded cable |
| **Environment and installation** | |
| Ambient temperature | Operation (with/without memory card [1.]):<br>• Only with main module: - 10...+ 70 °C (+ 14...+ 158 °F)<br>• With min. one additional module: - 10...+ 60 °C (+ 14...+ 140 °F) |
| Degree of protection [2.] according to IEC/EN 60529 | IP65, IP67, if the following conditions are met:<br>• Glands body tightened with a tightening torque of 5.5 Nm ± 20 %, made at factory<br>• Glands blanked off or wired<br>• Gland nuts tightened with a tightening torque of 4.5 Nm ± 20 %<br>• Housing closed and 4 screws of cover cross tightened with a tightening torque of 1.4 Nm ± 20 % |
| Installation category | Category II according to UL/EN 61010-1 |
| Pollution degree | Degree 3 according to UL/EN 61010-1 if the following conditions are met: housing tightly closed and the 4 screws of the cover are tightened crosswise at a torque of 1.4 Nm ± 20 % |

1.) If a different memory card is used, observe the operating temperatures specified by its manufacturer.
2.) Not evaluated by UL

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## 2. Product variants

Five different types of modules are available and can be inserted into any of the 6 slots (preconfigured at the factory).

- Input module:
  - 2 analogue inputs (4...20 mA or 0...20 mA or 0...2 V or 0...5 V or 0...10 V) and
  - 2 digital inputs (static or frequency/pulse)
- Output module:
  - 2 transistor outputs and
  - 2 analogue 4...20 mA outputs
- Inputs module for pH/ORP and Pt100/Pt1000 sensors
- Inputs module for conductivity and Pt100/Pt1000 sensors
- Ethernet module: Modbus TCP, PROFINET Conformance Class B and EtherNet/IP

### 2.1. Input module

| **Electrical data** | |
|---|---|
| Power consumption | 0.1 VA |
| Digital input | DI1, DI2<br>• Voltage: 0...36 V DC [1)]<br>• Switching threshold:<br>– $V_{on}$: = 5...36 V DC [1)]<br>– $V_{off}$: < 2 V DC<br>• Input impedance: 3 kΩ<br>• Frequency: 0.5...2500 Hz<br>• Galvanically isolated<br>• Protected against DC polarity reversal and voltage spikes |
| Analogue input | AI1, AI2<br>• Any connection in source or sink mode<br>• Galvanically isolated<br>• Current<br>– Range: 0 or 3.5...22 mA<br>– Maximal voltage: 36 V DC [1)]<br>– Impedance: 50 Ω<br>– Resolution: 1.5 µA<br>• Voltage<br>– Range: 0...2 or 5 or 10 V DC<br>– Maximal voltage: 36 V DC [1)]<br>– Impedance: 110 kΩ<br>– Resolution: 1 mV<br>• Measuring deviation: ± 0.25 % of measured value |

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## 2.2. Output module

| Electrical data | |
|---|---|
| Power consumption | 0.1 VA |
| Digital output | DO1, DO2<br>• Transistor<br>• Any connection in PNP or NPN mode<br>• Galvanically isolated<br>• Protected against short circuit<br>• Max. 36 V DC [1.]<br>• Frequency: max. 2000 Hz<br>• Current consumption allowed:<br>– max. 700 mA if 1 DO per module is activated<br>– max. 1 A if the 2 DO's per module are activated<br>– max. 4 A for an Ethernet variant if the device has 4 output modules<br>• Operating modes: On/Off, Hysteresis, Window, PWM, PFM |
| Analogue output | AO1, AO2<br>• Current: 4...20 mA<br>• Any connection in source or sink mode<br>• Galvanically isolated<br>• Protected against DC polarity reversal<br>• Max. loop impedance: 1100 Ω at 36 V DC [1.], 610 Ω at 24 V DC, 100 Ω at 12 V DC<br>• Resolution: 6 µA<br>• 4...20 mA output uncertainty: ± 0.5 % of the transmitted value |

## 2.3. Inputs module for pH/ORP and Pt100/Pt1000 sensors

| Electrical data | |
|---|---|
| Power consumption | 0.1 VA |
| pH/ORP input | Simultaneous pH and ORP measurement with input for electrochemical pH/ORP<br>• pH measurement<br>– Probe type: electrochemical<br>– Measuring range: - 2.0...+ 16 pH or - 600...+ 600 mV<br>– Measurement deviation: ± 0.02 pH or 1 mV + error of the pH probe [1.]<br>– Resolution: 0.01 pH or 0.1 mV<br>• ORP measurement<br>– Probe type: electrochemical<br>– Measuring range: - 2000...+ 2000 mV<br>– Measurement deviation: ± 1 mV + error of the ORP probe [1.]<br>– Resolution: 0.1 mV |
| Temperature input | Temperature measurement<br>• Probe type: Pt100/Pt1000, 2 or 3 wires<br>• Measuring range: - 25...+ 130 °C (- 20...+ 266 °F)<br>• Measurement deviation: ± 1 °C (1.8 °F) + error of the temperature probe [1.]<br>• Resolution: 0.1 °C (0.18 °F) |

1.) See corresponding probe data sheet

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## 2.4. Inputs module for conductivity and Pt100/Pt1000 sensors

| Electrical data | |
|---|---|
| Power consumption | 0.25 VA |
| Resistance measurement | 5.0 Ω...1 MΩ (without conductivity probe connected) |
| Conductivity input | • Operation with 2 or 4-pin technology sensors<br>• Conductivity measurement<br>– With connected conductivity probe<br>– Measuring range: 0 µS/cm...2 S/cm (depending on the conductivity cell)<br>– Measurement deviation: ± 0.5 % of measured value + error of the conductivity probe [1.)]<br>– Resolution: 1 nS/cm<br>• Resistivity measurement<br>– With connected conductivity probe<br>– Measuring range: 0.5 Ω·cm...100 MΩ·cm (depending on the conductivity cell)<br>– Measurement deviation: ± 0.5 % of measured value + error of the conductivity probe [1.)]<br>– Resolution: 0.1 Ω·cm |
| Temperature input | Temperature measurement<br>• Probe type: Pt100/Pt1000, 2 or 3 wires<br>• Measuring range: - 40...+ 200 °C (- 40...+ 392 °F)<br>• Measurement deviation: ± 1 °C (1.8 °F) + error of the temperature probe [1.)]<br>• Resolution: 0.1 °C (0.18 °F) |

1.) See corresponding probe data sheet

## 2.5. Ethernet module (industrial communication)

| Electrical data | |
|---|---|
| Power consumption | 2.2 VA |
| Connection cable | • Shielded cable: FTP minimum required<br>• Minimum category: 5e / CAT-5<br>• Length: max. 100 m |
| **Product connections** | |
| Electrical connection | 2 ports for an RJ45 connector (not provided)<br><br>**Note:** to make sure the door of a wall-mounted Ethernet variant can be fully closed, use RJ45 male connectors with maximum dimensions of 45 mm, including the bend radius of the Ethernet cable. |
| **Industrial Communication** | |
| Supported network protocol | • Modbus TCP<br>• PROFINET<br>• EtherNet/IP |
| Light-emitting diode | • 2 Link/Act LEDs (yellow)<br>• 2 Link LEDs (green) |
| **Modbus TCP protocol** | |
| Protocol | Internet protocol, version 4 (IPv4) |
| Network topology | • Tree<br>• Star<br>• Line (open daisy chain) |
| IP configuration | • Static IP address<br>• BOOTP (Bootstrap Protocol)<br>• DHCP (Dynamic Host Configuration Protocol) |
| Transmission speed | 10 or 100 MBit/s |

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| | |
|---|---|
| **PROFINET protocol** | |
| PROFINET IO specification | V2.3 |
| Network topology | • Tree<br>• Star<br>• Ring (closed daisy chain)<br>• Line (open daisy chain) |
| Network management | • LLDP (Link Layer Discovery Protocol)<br>• SNMP V1 (Simple Network Management Protocol)<br>• MIB (Management Information Base) |
| IP configuration | • DCP (Discovery and Configuration Protocol)<br>• Manual (Device naming and IP setting) |
| Transmission speed | 100 MBit/s full duplex |
| Maximum supported conformance class | CC-B |
| Media Redundancy (for ring topology) | MRP client is supported |
| GSDml file | See **"Device Description Files"** on the website in the **Software chapter Type 8619** ▶ |
| **EtherNet/IP protocol** | |
| Protocol | Internet protocol, version 4 (IPv4) |
| Network topology | • Tree<br>• Star<br>• Ring (closed daisy chain)<br>• Line (open daisy chain) |
| IP configuration | • Static IP address<br>• BOOTP (Bootstrap Protocol)<br>• DHCP (Dynamic Host Configuration Protocol) |
| Transmission speed | 10 or 100 MBit/s |
| Duplex mode | Half duplex, full duplex, auto-negotiation |
| MDI mode (Medium Dependant Interface) | Auto-MDIX |
| Predefined standard object | • Identity<br>• Message Router<br>• Assembly<br>• Connection Manager<br>• DLR<br>• QoS<br>• TCP/IP Interface<br>• EtherNet Link object |
| Device specified object | • I/O main board M0<br>• Functions<br>• Extension modules<br>• Ethernet module |
| EDS file | See **"Device Description Files"** on the website in the **Software chapter Type 8619** ▶ |

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# 3. Approvals and conformities

## 3.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

## 3.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

## 3.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU Type Examination Certificate and/or the EU Declaration of Conformity.

## 3.4. North America (USA/Canada)

| Approval | Description |
|---|---|
| c UL us LISTED | **Optional: UL Listed for the USA and Canada**<br>The products with the variable code PU02 are UL Listed for the USA and Canada according to:<br>• UL 61010-1 (ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE – Part 1: General Requirements)<br>• CAN/CSA-C22.2 No. 61010-1<br>Certificate number: 2017-10-27-E237737 |
| c UL us | **Optional: UL Recognized for the USA and Canada**<br>The products with the variable code PU01 are UL Recognized for the USA and Canada according to:<br>• UL 61010-1 (ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE – Part 1: General Requirements)<br>• CAN/CSA-C22.2 No. 61010-1 |

## 3.5. Others

**Network protocol**

| Approval | Description |
|---|---|
| PROFINET | **PROFINET**<br>Certificate number: Z11949 |
| EtherNet/IP | **EtherNet/IP**<br>Document number: 11654 |

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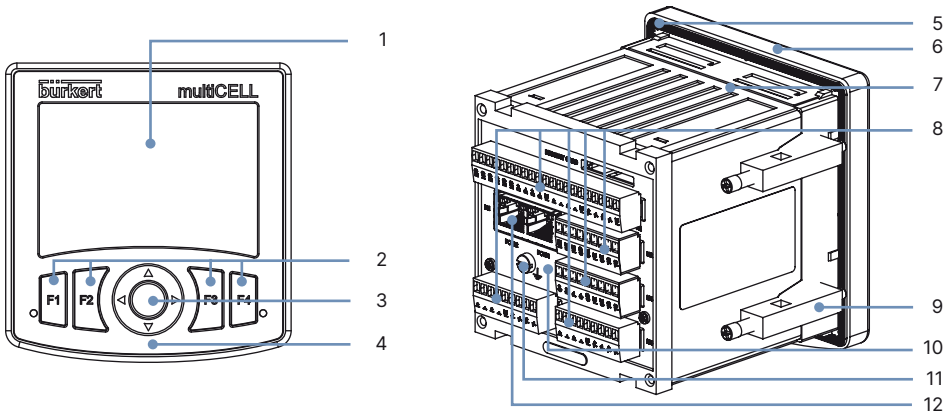
# 4. Materials

## 4.1. Material specifications

**Panel-mounted variant**

**Note:**
The following picture describes a device in the Ethernet variant.




| No. | Element | Material |
|---|---|---|
| **1** | Display | PC |
| **2** | Dynamic keys | Silicone |
| **3** | Navigation key | Silicone |
| **4** | Front panel coating | Silicone |
| **5** | Seal | Silicone |
| **6** | Front panel | PC |
| **7** | Housing | PPO |
| **8** | Terminal blocks | PBT, gold-plated copper alloy contact |
| **9** | Fastening element | PPO |
| **10** | Support plate for terminals | Stainless steel 304 |
| **11** | Ground screw | Stainless steel 316 (A4) |
| **12** | Port for an RJ45 connector | Gold-plated copper alloy contact, thermoplastic |

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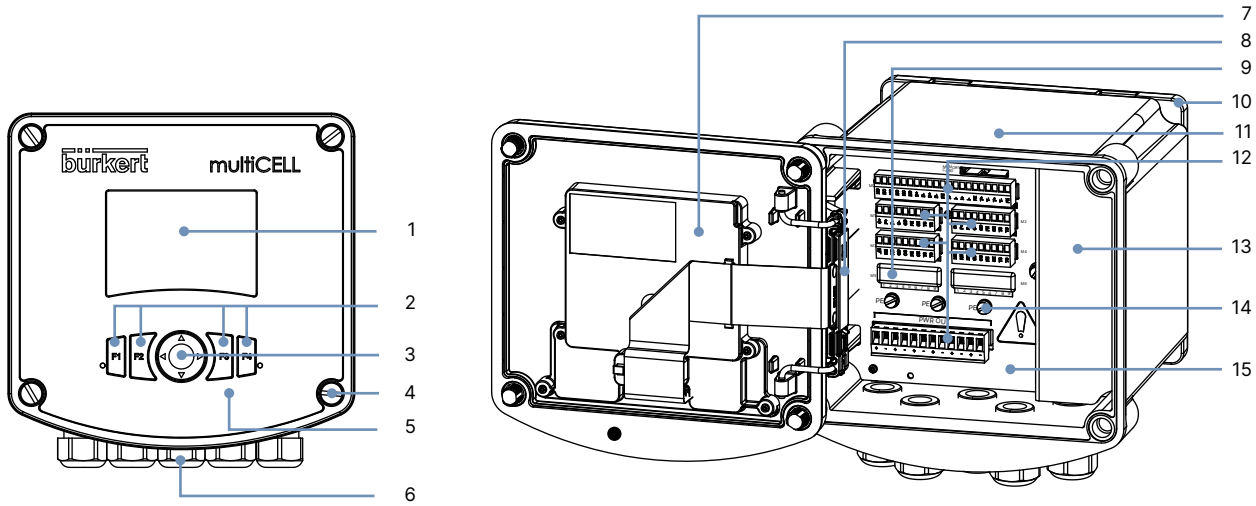
### Wall-mounted variant

**Note:**
The following picture describes a device in the Ethernet variant.




| No. | Element | Material |
|---|---|---|
| **1** | Display | PC |
| **2** | Dynamic keys | Silicone |
| **3** | Navigation key | Silicone |
| **4** | Cover screws | PVC |
| **5** | Front panel coating | Silicone |
| **6** | Cable glands | PA66 |
| **7** | Protecting cover (for display) | PA66 |
| **8** | Stiffener hinge | PA66 |
| **9** | Protecting cap (free terminal place) | PA66 |
| **10** | Fastening plate | PA66 |
| **11** | Housing | PA66 |
| **12** | Terminal blocks | PBT, gold-plated copper alloy contact |
| **13** | Protective cap of AC terminal block | Stainless steel 304 |
| **14** | Ground screw | Stainless steel 316 (A4) |
| **15** | Support plate for terminals | Stainless steel 304 |

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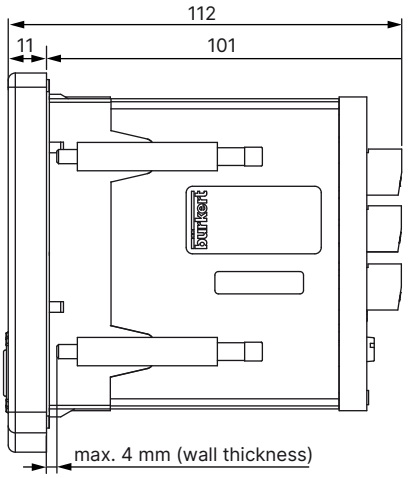
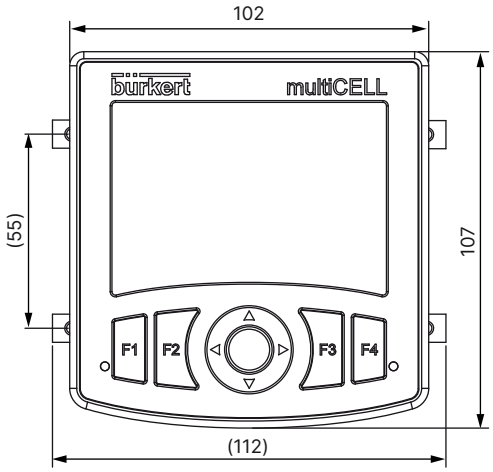
# 5. Dimensions

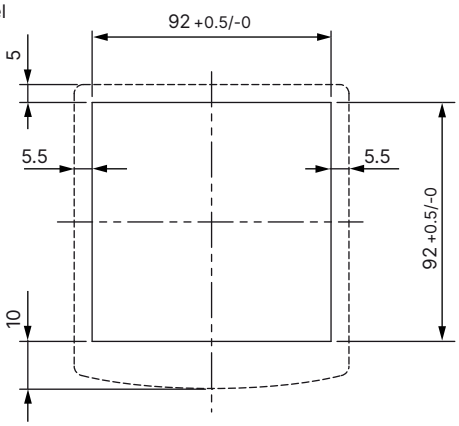
## 5.1. Panel-mounted variant

**Note:**
Dimensions in mm, unless otherwise stated




Cut-off panel

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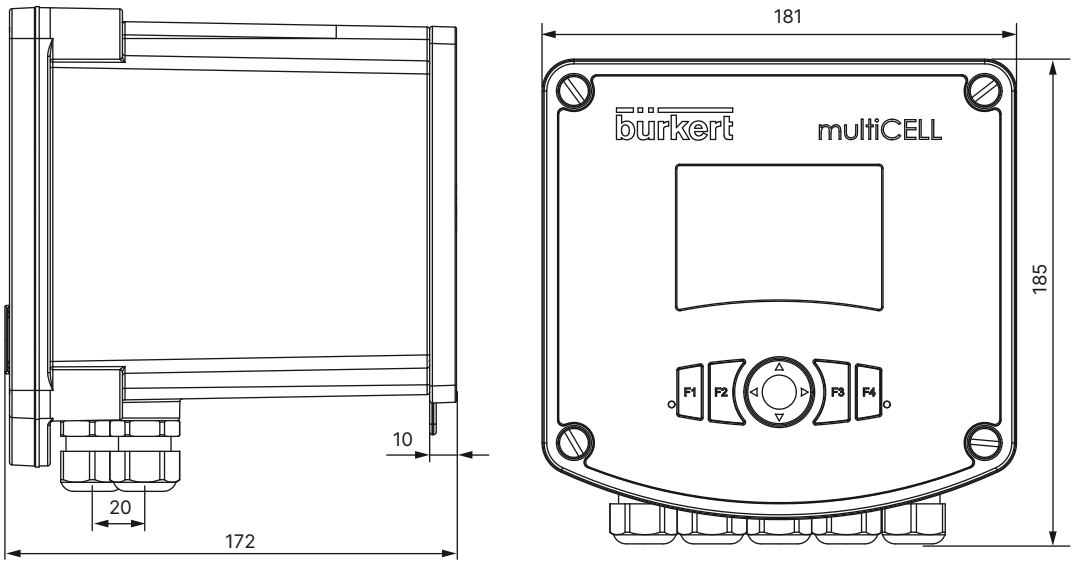
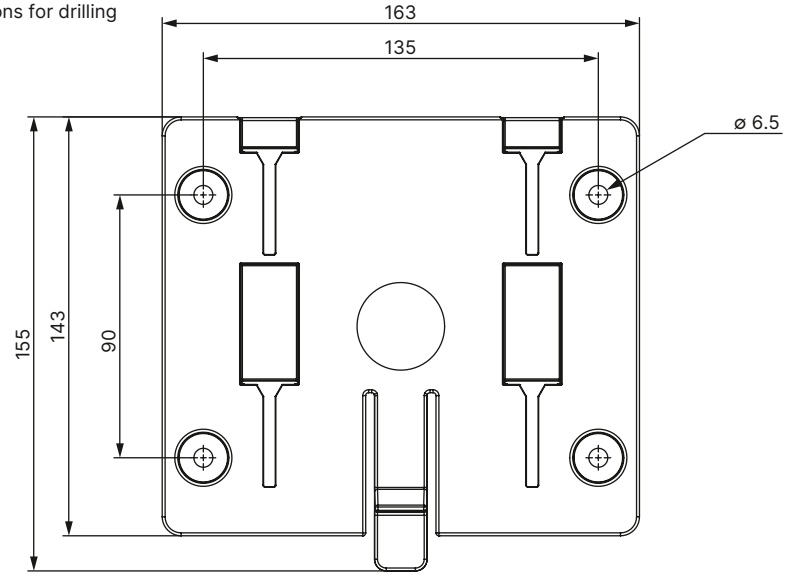
## 5.2. Wall-mounted variant

**Note:**

- Dimensions in mm, unless otherwise stated
- The wall mounted housing variant can also be fastened to on a pipeline with a mounting set (must be ordered separately, see chapter "10.6. Ordering chart accessories" on page 28).




Dimensions for drilling

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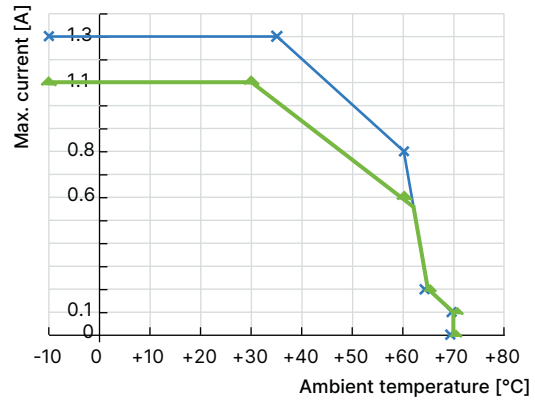
# 6. Performance specifications

## 6.1. Current temperature diagram

**Note:**
Maximum permitted current in dependence of the ambient temperature (for wall-mounted variant, 110...240 V AC)




Wall-mounted variant, 110...240 V AC, without extension module

Wall-mounted variant, 110...240 V AC, with extension module

# 7. Product operation

## 7.1. Principle of operation

Thanks to its modular internal structure, the transmitter/controller is able to manage, in parallel, different types of sensors and selectively perform operations on the measured values. Multiple tasks can be performed in parallel; from a simple measurement, to a standard output signal, to the assignment of mathematical formulas for selectable values for controlling and dosing. The signal and function modules can be easily connected to each other by configuration. Thanks to individual parameterization, all functions can be adapted to the actual process conditions.

The basic unit is either a panel-mounted variant or a wall-mounted variant. It has analogue and digital outputs, digital inputs and its front panel has a backlit graphic display. Depending on the application, up to 6 slots are available in which pH/Redox, conductivity, analogue and digital output modules, additional analogue and digital input boards, and industrial Ethernet modules can be installed. There is no need for a separate 4...20 mA transmitter: the pH, conductivity modules accept raw signals from sensors.
Though highly functional, the multiCELL can be operated easily and intuitively. The base for this is the large graphical display and the dynamically assigned function keys. Clearly arranged menu and module structures allow for easy configuration and setup of parameters and offer a high transparency for the functions in use. Four user views can be configured. This allows the user to design a view himself displaying a value arrangement which he likes to see simultaneously, and this can be available 4 times and independent from each other.

For data collection and storage e.g. of measurement values there is an optional “data logger” available which uses the memory card if inserted in the card slot. Uploading and restoring the complete database of the complete Type 8619, including the special parameter settings of the application and the updating firmware via the memory card is available as standard.
Fully integration into the automation system can be realized with the optional available Industrial Ethernet Module. The protocols Modbus TCP and PROFINET Conformance Class B and EtherNet/IP are fully supported. Thanks to generic configuration files, routing within the PLC can be easily done.

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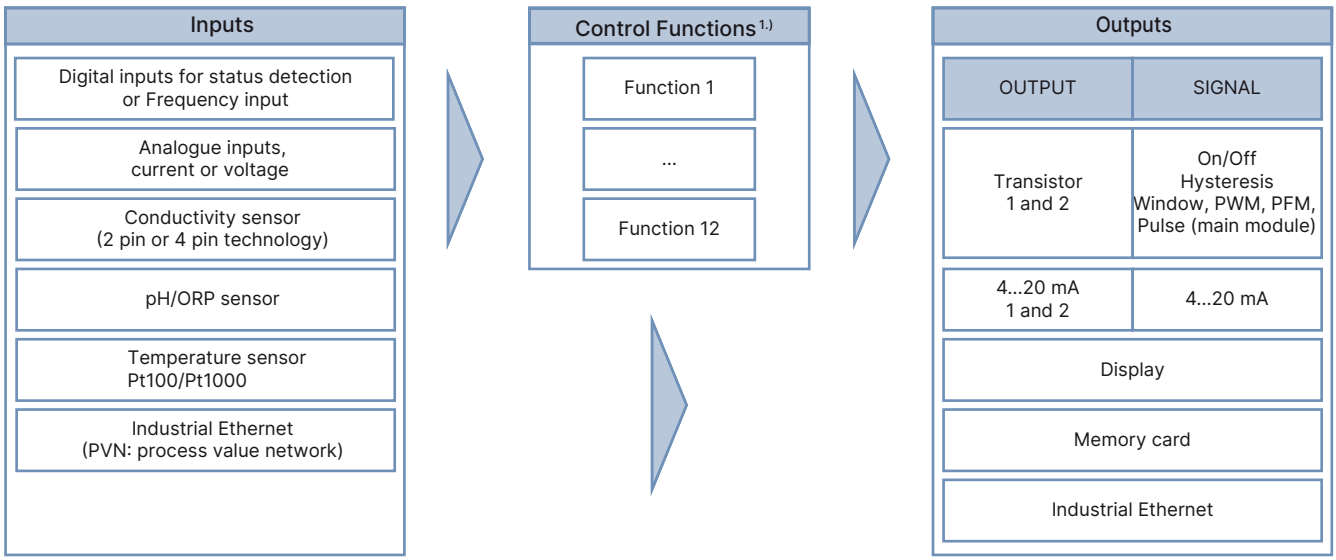
## 7.2. Functional overview

### Process diagram




1.) The 12 functions can operate simultaneously and independently of each other, and if the PID option is selected, up to 6 PID functions can be activated simultaneously.

### List of available functions

The transmitter/controller allows each input to be associated with a function (such as dosing, for example) that can be fully configured by the user. Depending on the model chosen, the following functions are offered as standard or as options.

| Function | Availability | Formula | Example for usage |
|---|---|---|---|
| **Arithmetic** | Basic for all models | A + B, A - B, A * B, A / B | Arithmetic operation (addition, subtraction, multiplication and division) between 2 values. For addition and subtraction, the 2 values must have the same units, but for multiplication and division not necessarily.<br>A and B can be<br>• Constants<br>• Measured physical parameters<br>• Results of other active configured functions<br>• The previous result of the same function<br>• Values sent by a PLC (PVN).<br>The multiplication function is available from Software version B.00.01 |
| **PASS** | Basic for all models | A / B [%] | A and B must have the same units and can be<br>• Constants<br>• Measured physical parameters<br>• Results of other active configured functions<br>• The previous result of the same function<br>• Values sent by a PLC (PVN).<br>Calculates a flow ratio between 2 values, e.g.: reverse osmosis |
| **REJECT** | Basic for all models | (1 - A / B) [%] | A and B must have the same units and can be<br>• Constants<br>• Measured physical parameters<br>• Results of other active configured functions<br>• The previous result of the same function<br>• Values sent by a PLC (PVN).<br>Calculates a reject ratio between 2 values, e.g.: reverse osmosis |
| **DEVIAT** | Basic for all models | (A / B - 1) [%] | Calculates a deviation ratio between 2 values |

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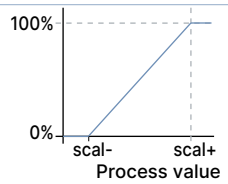
| Function | Availability | Formula | Example for usage |
|---|---|---|---|
| **MATH** | As option | Permits to enter an equation which respects the following rules:<br>• Up to 125 characters<br>• Up to 5 process values (A, B, C, D & E)<br>• With possible operators: ( ) ! ± ^ × ÷ % + - < > ≤ ≥ | A, B, C, D, E can be<br>• Constants<br>• Measured physical parameters<br>• Results of other active configured functions<br>• The previous result of the same function<br>• Values sent by a PLC (PVN)<br>e.g.: (A * B) + (C * D) - E |
| **PROP** | Basic for all models |  | Calculates an output in proportion to a scaled input |
| **ON/OFF** | Basic for all models | On/Off control loop | For any type of input |
| **Flow rate measurement** | As base for model article no. 560205, 560213, 565984, 565985, 565986, 565987 for others as option | – | Allows both digital inputs to be used as frequency inputs for flow measurement (in standard for base unit) or coexistent with analytical modules (in option for others devices) |
| **PID control** | As option | Continuous control loop | For any type of input and with internal or external setpoint |
| **Time dosing** | As option | – | e.g. for cooling tower application. Dosing of 1 or 2 biocides in the circuits, at fixed time intervals or by defining dosing during one week, with 2 dosings per day. Can be connected to an ON/OFF conductivity function for pre-purge. |
| **Special Chemical batch (Volume dosing)** | As option | – | Specifically for cooling tower application. A defined volume of water is counted, then an actuator is energized during a defined time to add a chemical and finally reset the water volume counter. |
| **Concentration** | As option | – | The concentration curves of NaCl, $H_2SO_4$, $HNO_3$, NaOH, HCl are implemented for use in complete concentration range and not only in low concentration. |
| **Data logging on memory card** | As option | – | Up to 16 values can be stored at a defined time interval. |

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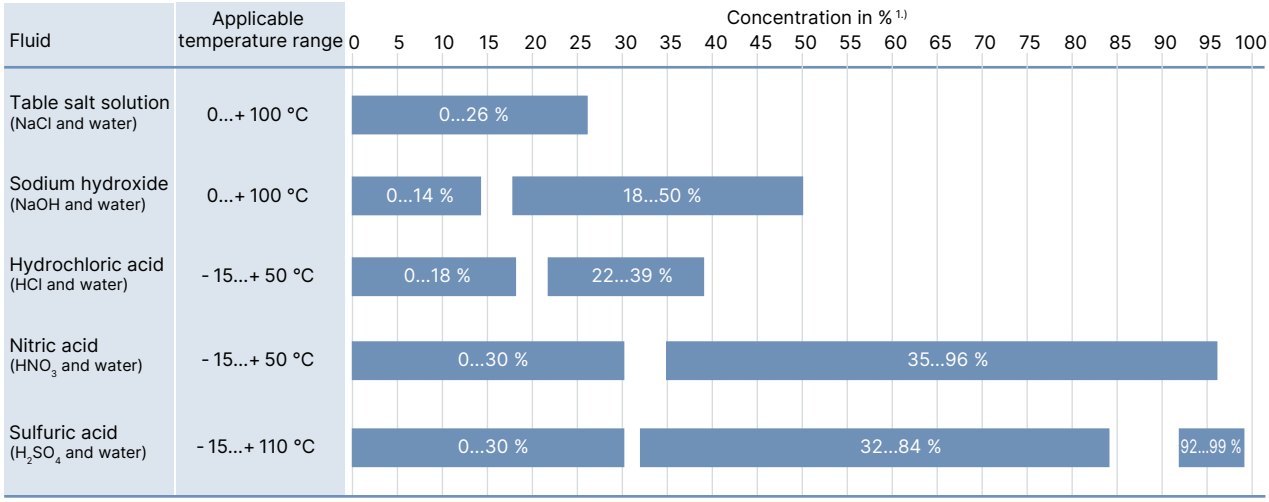
### Concentration table multiCELL

If multiCELL Type 8619 is equipped with a conductivity module, multiCELL is able to calculate the concentration depending on the measured conductivity and temperature. Therefore, concentration tables for binary mixtures of (five) different substances and water are available. Determine the best suited concentration range (out of ten ranges) for your application.

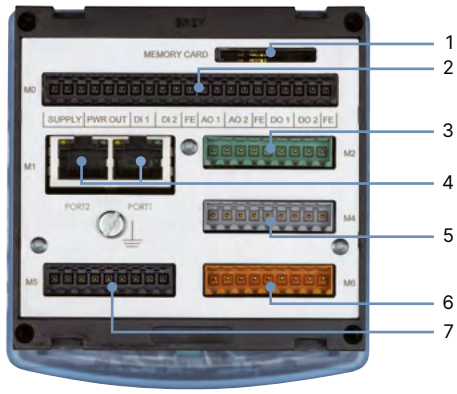



1.) The "%" involved on the x-axis refers to "% mass".

# 8. Product design and assembly

## 8.1. Product features

### Panel-mounted variant




| | |
|---|---|
| **Memory card slot** | |
| **1** | • For upload and download of parameter settings<br>• Software updates and functional upgrades<br>Simple operation: insert the memory card into the slot on the rear of the device. |
| **Main module slot** | |
| **2** | Enables:<br>• Connection to the transmitter/controller power supply<br>• To power another device<br>• The use of 2 digital inputs (DI), 2 analogue (AO) and 2 digital (DO) outputs |
| **Additional module slots (up to 6) to choose among** | |
| **3** | Module for conductivity sensor and/or temperature sensor (green connector) |
| **4** | Module for Industrial Ethernet (2 RJ45 connectors)<br>Ethernet module takes two slots and is available from Software version B.00.01 |
| **5** | Module for pH/ORP sensor and/or temperature sensor (light grey connector) |
| **6** | Module for 2 analogue and 2 digital inputs (orange connector) |
| **7** | Module for 2 analogue and 2 digital outputs (black connector) |

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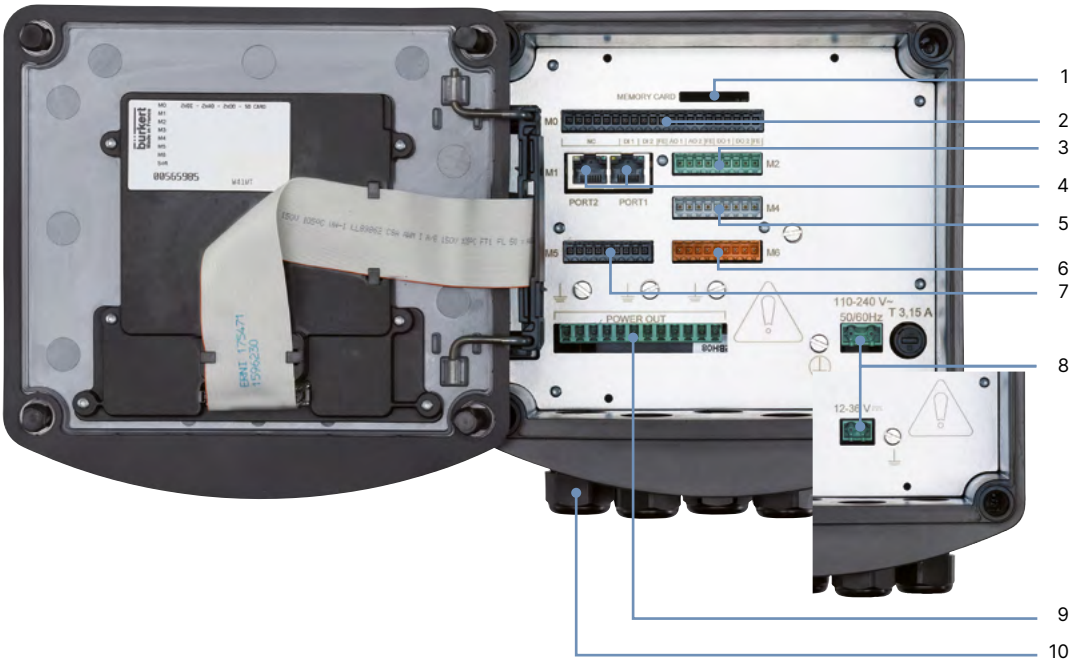
### Wall-mounted variant




| | |
|---|---|
| **Memory card slot** | |
| **1** | • For upload and download of parameter settings<br>• Software updates and functional upgrades<br>Simple operation: insert the memory card into the slot on the rear of the device. |
| **Main module slot** | |
| **2** | Enables the use of 2 digital inputs (DI), 2 analogue (AO) and 2 digital (DO) outputs |
| **Additional module slots (up to 6) to choose among** | |
| **3** | Module for conductivity sensor and/or temperature sensor (green connector) |
| **4** | Module for Industrial Ethernet (2 RJ45 connectors)<br>Ethernet module takes two slots and is available from Software version B.00.01 |
| **5** | Module for pH/ORP sensor and/or temperature sensor (light grey connector) |
| **6** | Module for 2 analogue and 2 digital inputs (orange connector) |
| **7** | Module for 2 analogue and 2 digital outputs (black connector) |
| **Power supply slot** | |
| **8** | Enables connection to the transmitter/controller power supply (behind the protecting cover for 110...240 V AC variant) |
| **Power charges slot** | |
| **9** | Enables to power another device |
| **Optional M12 connector** | |
| **10** | For industrial Ethernet |

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## 9. Networking and combination with other Bürkert products

**Example:**

**Type 8619**

| Input signal | | | | | | Output signal | |
|---|---|---|---|---|---|---|---|
| Flow | | Analysis | | | Pressure | – | – |
| | | | | | | | |
| **Type 8031** ▶ Flowmeter for low flow rates<br><br>**Type 8030** ▶ Inline flowmeter with paddle wheel<br><br>**Type 8077** ▶ Inline flowmeter with oval gears<br><br>**Type 8020** ▶ Insertion flowmeter with paddle wheel | **Type 8041** ▶ Magflowmeter | **Type 8200** ▶ Probes holder with **Type 8203** ▶ pH or ORP probe and temperature sensor<br><br>**Type 8201** ▶ Hygienic pH measuring system | **Type 8220** ▶ Resistive conductivity sensor<br><br>**Type 8221** ▶ Hygienic conductivity sensor | **Type 8232** ▶ Chlorine sensor | **Type 8316** ▶ Pressure meter | **Type 2030** ▶ Diaphragm valve with pilot valve | **Type 8802** ▶ Diaphragm control valve with TopControl |

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# 10. Ordering information

## 10.1. Bürkert eShop

**Bürkert eShop – Easy ordering and quick delivery**

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

Order online now

## 10.2. Recommendation regarding product selection

**Note:**

- The devices listed in the tables in chapter "10.5. Ordering chart" on page 25 are equipped with the arithmetic, PASS, REJECT, DEVIAT, MATH, PROP, ON/OFF functions as standard (see chapter "List of available functions" on page 19).
- Only the BASE unit and the device equipped with a main module and an Ethernet module have the flow measurement function as a standard function, the other functions are available as options.
  For customised devices with additional options, use the product enquiry form, see chapter "10.4. Bürkert Product Enquiry Form" on page 24.
- If a totalizer function is required, then a flowmeter has to be connected via a digital input (main module or input module).

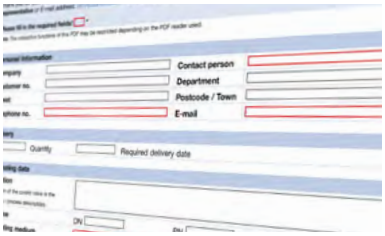
## 10.3. Bürkert product filter

**Bürkert product filter – Get quickly to the right product**

You want to select products comfortably based on your technical requirements?
Use the Bürkert product filter and find suitable articles for your application quickly and easily.

Try out our product filter

## 10.4. Bürkert Product Enquiry Form



**Bürkert Product Enquiry Form – Your enquiry quickly and compactly**

Would you like to make a specific product enquiry based on your technical requirements? Use our Product Enquiry Form for this purpose. There you will find all the relevant information for your Bürkert contact. This will enable us to provide you with the best possible advice.

Fill out the form now

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## 10.5. Ordering chart

**Panel-mounted variant, 12...36 V DC**

**Note:**
If the device is mounted in a humid environment or outside, then the maximum voltage allowed is 35 V DC instead of 36 V DC.

| Description | Input | | | | Output | | Network protocol | UL approval [5.] | Article no. |
|---|---|---|---|---|---|---|---|---|---|
| | Digital (DI) [1.] | Analogue (AI) [2.] | Number and type of sensor raw signals | Pt100/ Pt1000 | Transistor (DO) [3.] | Analogue (AO) [4.] | | | |
| Base unit (only main module) with flow measurement | 2 | – | – | – | 2 | 2 | – | No | 560205 |
| | | | | | | | | Yes | 560213 |
| Main module + 1 pH/ORP module | 2 | – | 1 (pH/ORP) | 1 | 2 | 2 | – | No | 560200 |
| | | | | | | | | Yes | 560208 |
| Main module + 2 pH/ORP modules + 1 output module | 2 | – | 2 (pH/ORP) | 2 | 4 | 4 | – | No | 560202 |
| | | | | | | | | Yes | 560210 |
| Main module + 1 conductivity module | 2 | – | 1 (cond.) | 1 | 2 | 2 | – | No | 560201 |
| | | | | | | | | Yes | 560209 |
| Main module + 2 conductivity modules + 1 output module | 2 | – | 2 (cond.) | 2 | 4 | 4 | – | No | 560203 |
| | | | | | | | | Yes | 560211 |
| Main module + 1 pH/ORP module + 1 conductivity module + 1 output module | 2 | – | 1 (pH/ORP) + 1 (cond.) | 2 | 4 | 4 | – | No | 560204 |
| | | | | | | | | Yes | 560212 |
| Main module + 1 input module | 4 | 2 | – | – | 2 | 2 | – | No | 563960 |
| | | | | | | | | Yes | 563961 |
| Main module + 1 pH/ORP module + 1 input module + 1 output module | 4 | 2 | 1 (pH/ORP) | 1 | 4 | 4 | – | No | 563962 |
| | | | | | | | | Yes | 563963 |
| Main module + 1 conductivity module + 1 input module + 1 output module | 4 | 2 | 1 (cond.) | 1 | 4 | 4 | – | No | 563964 |
| | | | | | | | | Yes | 563912 |
| Main module with flow measurement + 1 Ethernet module | 2 | – | – | – | 2 | 2 | Modbus TCP [6.] | No | 569259 |
| | | | | | | | PROFINET [7.] | No | 569260 |
| | | | | | | | EtherNet/IP [7.] | Yes | 569261 |
| Main module + 1 pH/ORP module + 1 Ethernet module | 2 | – | 1 (pH/ORP) | 1 | 2 | 2 | Modbus TCP [6.] | No | 569265 |
| | | | | | | | PROFINET [7.] | No | 569266 |
| | | | | | | | EtherNet/IP [7.] | Yes | 569267 |
| Main module + 1 conductivity module + 1 Ethernet module | 2 | – | 1 (cond.) | 1 | 2 | 2 | Modbus TCP [6.] | No | 569262 |
| | | | | | | | PROFINET [7.] | No | 569263 |
| | | | | | | | EtherNet/IP [7.] | Yes | 569264 |

1.) On/Off or frequency
2.) 0/4...20 mA current and/or 0...2, 0...5, 0...10 V DC voltage
3.) PWM or PFM or On/Off or pulse
4.) 4...20 mA
5.) UL Listed (Measuring Equipment E237737)
6.) If you order a device with a Modbus TCP network protocol, it does not include the other 2. If you would like to change it with a PROFINET or EtherNet/IP network, the Ethernet protocol must be ordered (see chapter "Additional software functions for Type 8619" on page 28).
7.) If you order a device with a PROFINET or EtherNet/IP network protocol, it also contains the other two.

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### Wall-mounted variant, 12...36 V DC

**Note:**
If the device is mounted in a humid environment or outside, then the maximum voltage allowed is 35 V DC instead of 36 V DC

| Description | Input | | | | Output | | Network protocol | UL approval [5.] | Article no. |
|---|---|---|---|---|---|---|---|---|---|
| | Digital (DI) [1.] | Analogue (AI) [2.] | Number and type of sensor raw signals | Pt100/ Pt1000 | Transistor (DO) [3.] | Analogue (AO) [4.] | | | |
| Base unit (only main module) with flow measurement | 2 | – | – | – | 2 | 2 | – | No | 565984 |
| | | | | | | | | Yes | 565986 |
| Main module + 1 pH/ORP module | 2 | – | 1 (pH/ORP) | 1 | 2 | 2 | – | No | 565988 |
| | | | | | | | | Yes | 565990 |
| Main module + 2 pH/ORP modules + 1 output module | 2 | – | 2 (pH/ORP) | 2 | 4 | 4 | – | No | 565992 |
| | | | | | | | | Yes | 565994 |
| Main module + 1 conductivity module | 2 | – | 1 (cond.) | 1 | 2 | 2 | – | No | 565996 |
| | | | | | | | | Yes | 565998 |
| Main module + 2 conductivity modules + 1 output module | 2 | – | 2 (cond.) | 2 | 4 | 4 | – | No | 566000 |
| | | | | | | | | Yes | 566002 |
| Main module + 1 pH/ORP module + 1 conductivity module + 1 output module | 2 | – | 1 (pH/ORP) + 1 (cond.) | 2 | 4 | 4 | – | No | 566004 |
| | | | | | | | | Yes | 566006 |
| Main module + 1 input module | 4 | 2 | – | – | 2 | 2 | – | No | 566008 |
| | | | | | | | | Yes | 566010 |
| Main module + 1 pH/ORP module + 1 input module + 1 output module | 4 | 2 | 1 (pH/ORP) | 1 | 4 | 4 | – | No | 566012 |
| | | | | | | | | Yes | 566014 |
| Main module + 1 conductivity module + 1 input module + 1 output module | 4 | 2 | 1 (cond.) | 1 | 4 | 4 | – | No | 566016 |
| | | | | | | | | Yes | 566018 |
| Main module with flow measurement + 1 Ethernet module | 2 | – | – | – | 2 | 2 | Modbus TCP [6.] | No | 569268 |
| | | | | | | | PROFINET [7.] | No | 569269 |
| | | | | | | | EtherNet/IP [7.] | Yes | 569270 |
| Main module + 1 pH/ORP module + 1 Ethernet module | 2 | – | 1 (pH/ORP) | 1 | 2 | 2 | Modbus TCP [6.] | No | 569274 |
| | | | | | | | PROFINET [7.] | No | 569275 |
| | | | | | | | EtherNet/IP [7.] | Yes | 569276 |
| Main module + 1 conductivity module + 1 Ethernet module | 2 | – | 1 (cond.) | 1 | 2 | 2 | Modbus TCP [6.] | No | 569271 |
| | | | | | | | PROFINET [7.] | No | 569272 |
| | | | | | | | EtherNet/IP [7.] | Yes | 569273 |

1.) On/Off or frequency
2.) 0/4...20 mA current and/or 0...2, 0...5, 0...10 V DC voltage
3.) PWM or PFM or On/Off or pulse
4.) 4...20 mA
5.) UL Listed (Measuring Equipment E237737)
6.) If you order a device with a Modbus TCP network protocol, it does not include the other 2. If you would like to change it with a PROFINET or EtherNet/IP network, the Ethernet protocol must be ordered (see chapter "Additional software functions for Type 8619" on page 28).
7.) If you order a device with a PROFINET or EtherNet/IP network protocol, it also contains the other two.

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### Wall-mounted variant, 110...240 V AC

| Description | Input | | | | Output | | Network protocol | UL approval [5.] | Article no. |
|---|---|---|---|---|---|---|---|---|---|
| | Digital (DI) [1.] | Analogue (AI) [2.] | Number and type of sensor raw signals | Pt100/ Pt1000 | Transistor (DO) [3.] | Analogue (AO) [4.] | | | |
| Base unit (only main module) with flow measurement | 2 | – | – | – | 2 | 2 | – | No | 565985 |
| | | | | | | | | Yes | 565987 |
| Main module + 1 pH/ORP module | 2 | – | 1 (pH/ORP) | 1 | 2 | 2 | – | No | 565989 |
| | | | | | | | | Yes | 565991 |
| Main module + 2 pH/ORP modules + 1 output module | 2 | – | 2 (pH/ORP) | 2 | 4 | 4 | – | No | 565993 |
| | | | | | | | | Yes | 565995 |
| Main module + 1 conductivity module | 2 | – | 1 (cond.) | 1 | 2 | 2 | – | No | 565997 |
| | | | | | | | | Yes | 565999 |
| Main module + 2 conductivity modules + 1 output module | 2 | – | 2 (cond.) | 2 | 4 | 4 | – | No | 566001 |
| | | | | | | | | Yes | 566003 |
| Main module + 1 pH/ORP module + 1 conductivity module + 1 output module | 2 | – | 1 (pH/ORP) + 1 (cond.) | 2 | 4 | 4 | – | No | 566005 |
| | | | | | | | | Yes | 566007 |
| Main module + 1 input module | 4 | 2 | – | – | 2 | 2 | – | No | 566009 |
| | | | | | | | | Yes | 566011 |
| Main module + 1 pH/ORP module + 1 input module + 1 output module | 4 | 2 | 1 (pH/ORP) | 1 | 4 | 4 | – | No | 566013 |
| | | | | | | | | Yes | 566015 |
| Main module + 1 conductivity module + 1 input module + 1 output module | 4 | 2 | 1 (cond.) | 1 | 4 | 4 | – | No | 566017 |
| | | | | | | | | Yes | 566019 |
| Main module with flow measurement + 1 Ethernet module | 2 | – | – | – | 2 | 2 | Modbus TCP [6.] | No | 569277 |
| | | | | | | | PROFINET [7.] | No | 569278 |
| | | | | | | | EtherNet/IP [7.] | Yes | 569279 |
| Main module + 1 pH/ORP module + 1 Ethernet module | 2 | – | 1 (pH/ORP) | 1 | 2 | 2 | Modbus TCP [6.] | No | 569283 |
| | | | | | | | PROFINET [7.] | No | 569284 |
| | | | | | | | EtherNet/IP [7.] | Yes | 569285 |
| Main module + 1 conductivity module + 1 Ethernet module | 2 | – | 1 (cond.) | 1 | 2 | 2 | Modbus TCP [6.] | No | 569280 |
| | | | | | | | PROFINET [7.] | No | 569281 |
| | | | | | | | EtherNet/IP [7.] | Yes | 569282 |

1.) On/Off or frequency
2.) 0/4...20 mA current and/or 0...2, 0...5, 0...10 V DC voltage
3.) PWM or PFM or On/Off or pulse
4.) 4...20 mA
5.) UL Listed (Measuring Equipment E237737)
6.) If you order a device with a Modbus TCP network protocol, it does not include the other 2. If you would like to change it with a PROFINET or EtherNet/IP network, the Ethernet protocol must be ordered (see chapter "Additional software functions for Type 8619" on page 28).
7.) If you order a device with a PROFINET or EtherNet/IP network protocol, it also contains the other two.

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**Additional software functions for Type 8619**

**Note:**

- Use the following article no.s. only if you already own a Type 8619 device to which you want to add one or more functions.
- Indicate the article no. of your multiCELL Type 8619 transmitter/controller and its serial number (shown on the product label) on the order.
- The functions “Save settings on” and “Load settings from” the memory card of the complete configuration parameters of the Type 8619 are available as standard and does not require the “Data logger” option.

| Software option | Remark | Article no. |
|---|---|---|
| PID control | – | 561836 |
| Data Logger | SD card is not included | 561837 |
| Chemical dosing (e.g. cooling tower) | The “Dosing” option also activates the “Flow” option if it does not exist by default in the device. | 561838 |
| Flow measurement | Is already included in the base unit device (article no. 560205 and 560213) | 561839 |
| Concentration measurement of selected fluids | Requires at least one conductivity hardware module | 561840 |
| Protocols Ethernet: Modbus TCP, PROFINET, EtherNet/IP | Ethernet-Module takes 2 slots<br>(available only from Software version B.00.01; already included in the device with a PROFINET or EtherNet/IP network protocol) | 569286 |
| MATH function | – | 569848 |

## 10.6. Ordering chart accessories

**Note:**
Further information on the connection cables between the sensor and the multiCELL transmitter/controller can be found in the data sheet of the selected sensor type.

| Description | Article no. |
|---|---|
| SDHC Memory Card, Class 10, 8 GB | 564072 |
| Mounting set for pipeline installation | 564596 |
| Adapter for cable glands M20 × 1.5 with RJ45-M12 interface connector D-coded | 569242 |

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