

EasyClean systems

Technical data

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EasyClean 200e



Valve assembly

METTLER TOLEDO

What is EasyClean?

Automated in-line cleaning system for your sensors

Only a clean sensor can provide reliable and accurate measurement results. With our EasyClean systems, cleaning and calibration of sensors can be fully automated. Both the cleaning interval and the duration of flushing can be individually programmed for specific applications.

The EasyClean range starts with two comparatively basic versions intended for straightforward sensor flushing, the EasyClean 100 and EasyClean 150. These two systems are primarily intended for applications where contamination occurs in the form of water-soluble substances.

The EasyClean 200e can, besides the use of water alone, also be employed for cleaning with the aid of chemical solutions. Concentrated cleaning agent of your choice is pumped directly to the tip of the sensor. Cleaning and rinsing times as well as the cleaning interval can be adjusted individually.

| Type | Function |
|----------------|--------------------------|
| EasyClean 100 | flush |
| EasyClean 150 | flush |
| EasyClean 200e | flush, chemical cleaning |

Advantages through the employment of EasyClean:

- replacement/maintenance cost savings due to an extended lifetime of sensors
- higher safety standard through not having to remove the sensor during maintenance work
- increased process safety due to accurate, reliable measurement
- greater reproducibility of measurements for better process control
- defined and consistent product quality
- wide flexibility of system installation
- user-selectable cleaning medium/wide choice of cleaning media
- regular maintenance of poorly accessible installations.

Some typical applications

| | |
|--------------------------|--|
| Wastewater: | Detoxification and neutralization of industrial wastewater |
| Pulp & paper: | Spreading on paper machines Bleaching process |
| CPI: | Optimization of dye manufacture Production of agrochemicals Monitoring of chemical reactions |

EasyClean 100 – an ideal control unit for use with the InDip immersion housing



When taking measurements in open basins or channels, e.g., in wastewater neutralization plants, the sensor is mostly mounted in an immersion housing. This housing allows the sensor to be safely located in the basin or channel at a defined immersion depth. Conventional cleaning methods require removing the whole installation from the basin. Using EasyClean 100, this cleaning procedure can be fully automated, while the housing and sensor remain in the immersed position.

EasyClean 100 consists of a control unit and an additional spray head located at the submerged end of the InDip 550 immersion housing. Air or water is sprayed directly at the tip of the sensor to ensure effective cleaning. It is therefore completely unnecessary to remove the installation from its mounted position. Cleaning is carried out automatically through activation of the "Wash" contact in the associated transmitter. Depending upon the degree of contamination or fouling of the sensor, the cleaning interval and/or duration can be set individually as required.



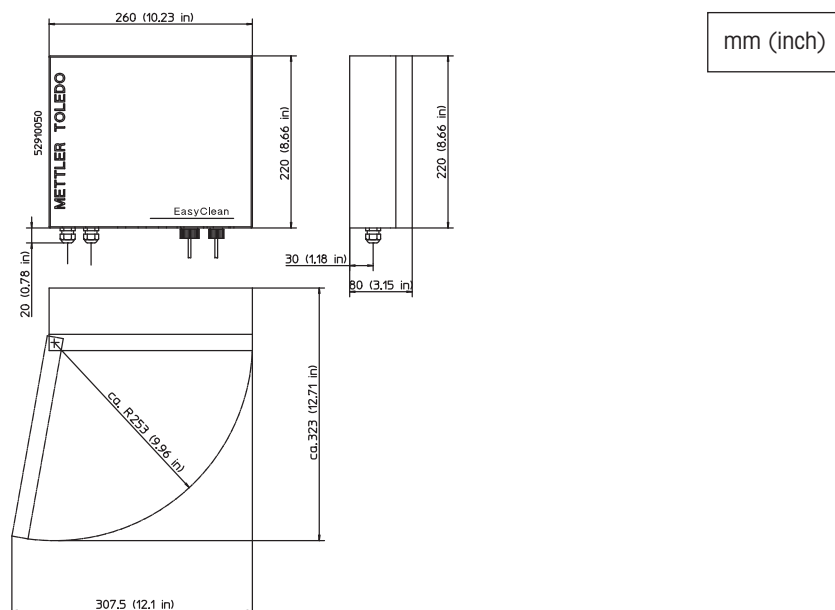
Sensor cleaning with air using the cavitation effect.

Cavitation:

A localized low-pressure vaporization condition (cavities or bubbles) within a liquid, is not always appreciated. In our particular case, the sound and/or vibration on the sensor surface caused by bubble collapse is welcomed to remove contamination.

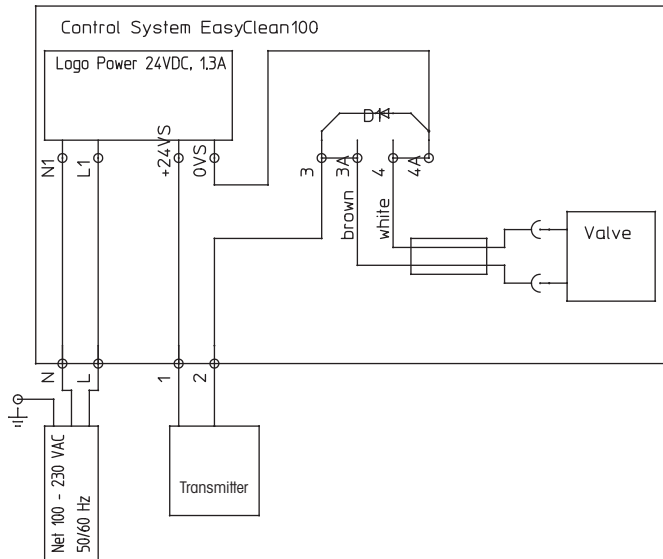
Dimensions EasyClean 100

For the exact dimensions relative to pipe/post or wall mounting, please refer to the specifications section on pages 14 and 15 of this documentation.



Electrical connections EasyClean 100

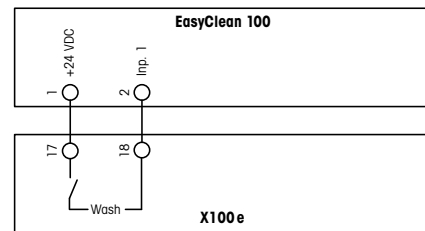
Electrical connections of EasyClean 100 and a transmitter.



Electrical connections

Transmitter X100e

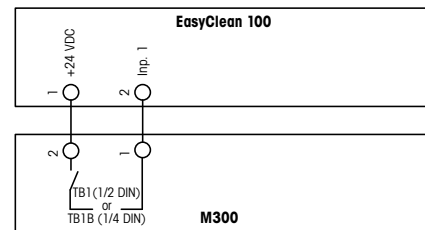
Define rinse interval and rinse time according to the process requirements on the transmitter X100e.



Transmitter M300

Set relay #1 (default) or #2, #3, #4 on the transmitter to rinse contact.

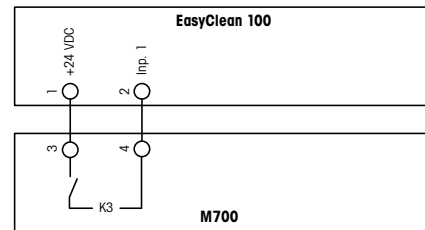
Define rinse interval and rinse time according to the process requirements on the transmitter M300.



Transmitter M700

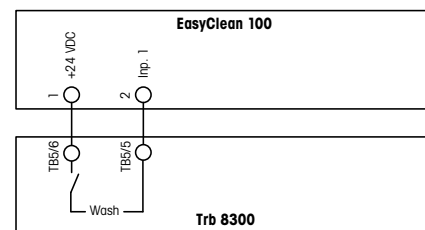
Set relays K3 (or K1 or K2) to rinse contact. Set it on NO (normally open).

Define the rinse interval and rinse time according to the process requirements.

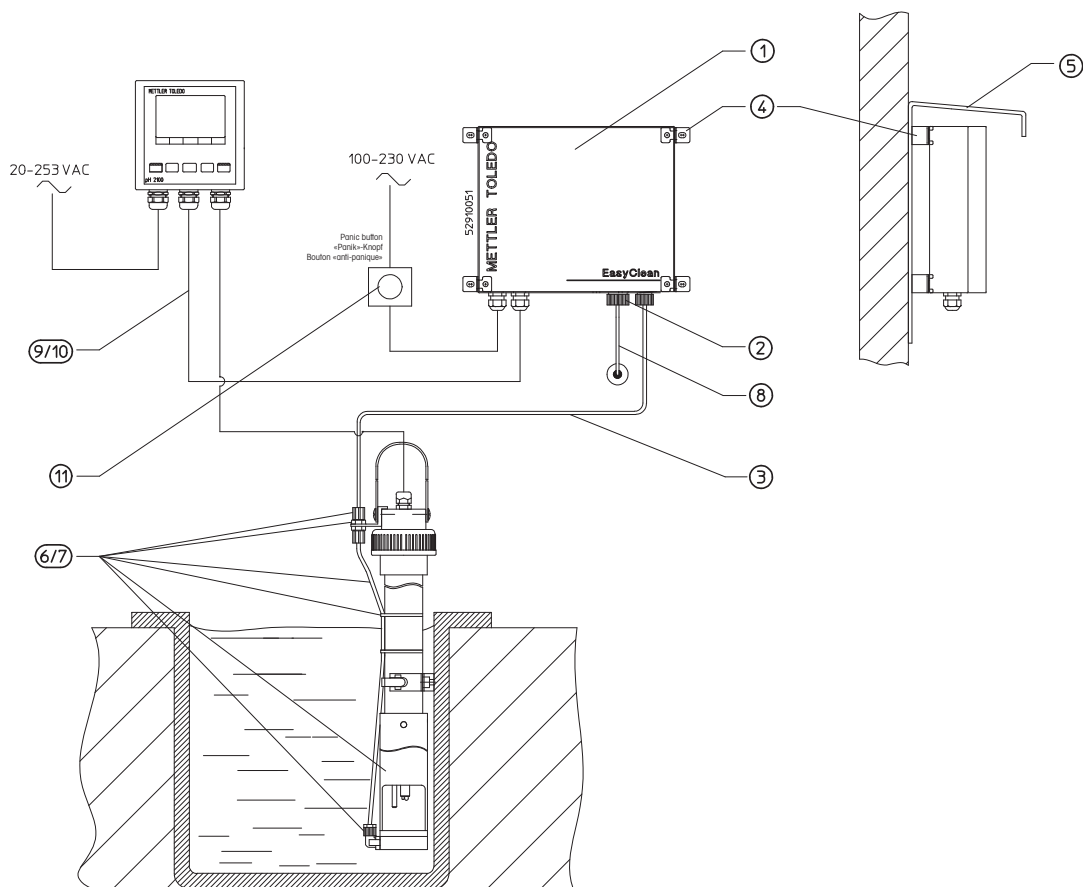


Transmitter Trb 8300

Define rinse interval and rinse time according to the process requirements on the transmitter Trb 8300.



System configuration and ordering information EasyClean 100



The EasyClean 100 delivery consists of the following:

| N° | Designation | Order no. |
|----|---|------------|
| 1 | EasyClean 100 | 52 402 304 |
| 2 | Water connection: G 1/4" female or 1/4" NPT male | |
| 3 | Connecting hose: Ø 6/4 mm, length 5 m (16.4 ft), material LDPE → connection control unit → InDip | |

| Accessories and spare parts (to be ordered separately) | | |
|--|---|------------|
| 4 | Wall mounting kit, complete | 52 402 306 |
| 5 | Weatherproof hood | 52 402 316 |
| 6 | Spray head for InDip 550/PVC | 52 402 291 |
| 7 | Spray head for InDip 550/PVDF | 52 402 290 |
| 8 | Hose LDPE for compressed air connection (20 m/65.6 ft) | 52 402 314 |
| 9 | Connecting cable: control unit → transmitter (5 m/16.4 ft) | 52 300 265 |
| 10 | Connecting cable: control unit → transmitter (10 m/32.8 ft) | 52 300 266 |
| 11 | Panic button (emergency shutdown) | 52 402 317 |
| | Pipe/post mounting kit, complete (description on page 15) | 52 402 308 |
| | Instruction manual EasyClean 100/150 (e/g/f) | 52 500 178 |

EasyClean 150 – the ideal control unit for use with the InDip immersion housing

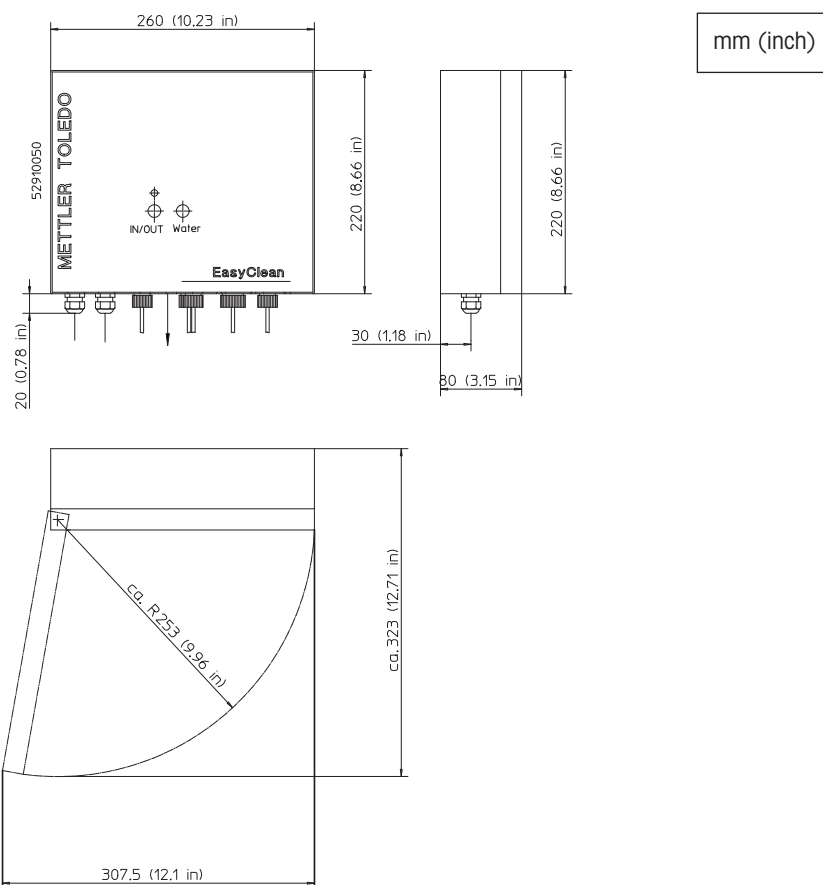


Sensors installed in a pipe or reaction vessel must be withdrawn from the process periodically for maintenance. The InTrac retractable housing features a flushing chamber that is safely sealed off from the process. Using an InTrac retractable housing, sensors can easily be removed from the medium for cleaning, maintenance, or replacement without process interruption. The EasyClean 150 is the simplest, safest, and most cost-effective way to automate sensor flushing. The flushing cycle and its duration can be triggered automatically through the "Wash" contact in the transmitter, or performed manually by pressing the appropriate keys on the EasyClean control unit. The position of the retractable housing will be indicated through the EasyClean 150.

EasyClean 150 will work optimally with all pneumatic operated retractable housings such as the InTrac 777 e.

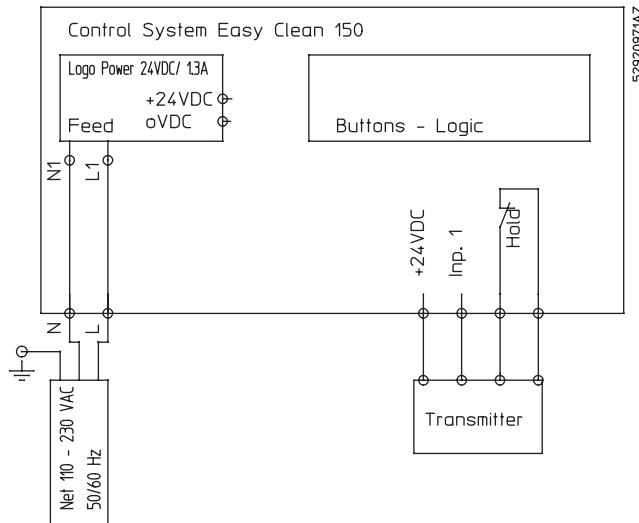
Dimensions EasyClean 150

For the exact dimensions relative to pipe/post or wall mounting, please refer to the specifications section on pages 14 and 15 of this documentation.



Electrical connections EasyClean 150

Electrical connections of EasyClean 150 and a transmitter.

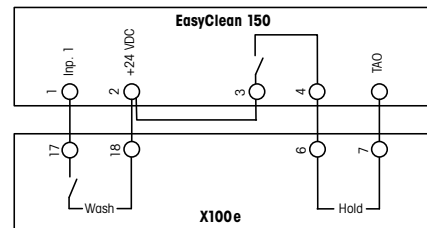


Electrical connections

Transmitter X100e

NOTICE
Bridge terminal 2 and 3 in the EasyClean 150.

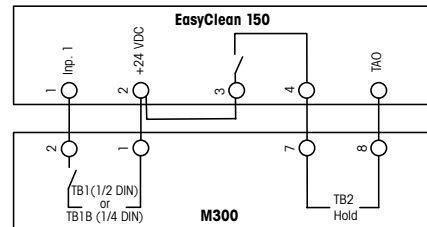
Define rinse interval and rinse time according to the process requirements on the transmitter X100e.



Transmitter M300

NOTICE
Bridge terminal 2 and 3 in the EasyClean 150.

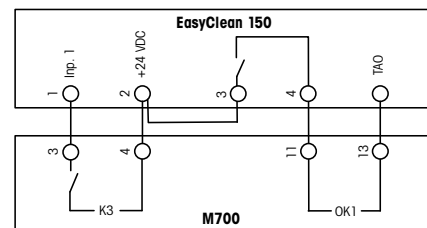
Set relay #1 (default) or #2, #3, #4 on the transmitter to rinse contact.
Define rinse interval and rinse time according to the process requirements on the transmitter M300.



Transmitter M700

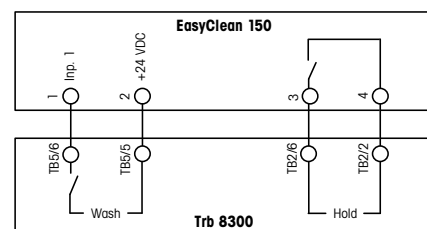
NOTICE
Bridge terminal 2 and 3 in the EasyClean 150.

Set relays K3 (or K1 or K2) to rinse contact and NO (normally open). Define the rinse interval and rinse time according to the process requirements.
Set input OK1 to HOLD (active 10–30 V) for the external hold signal.

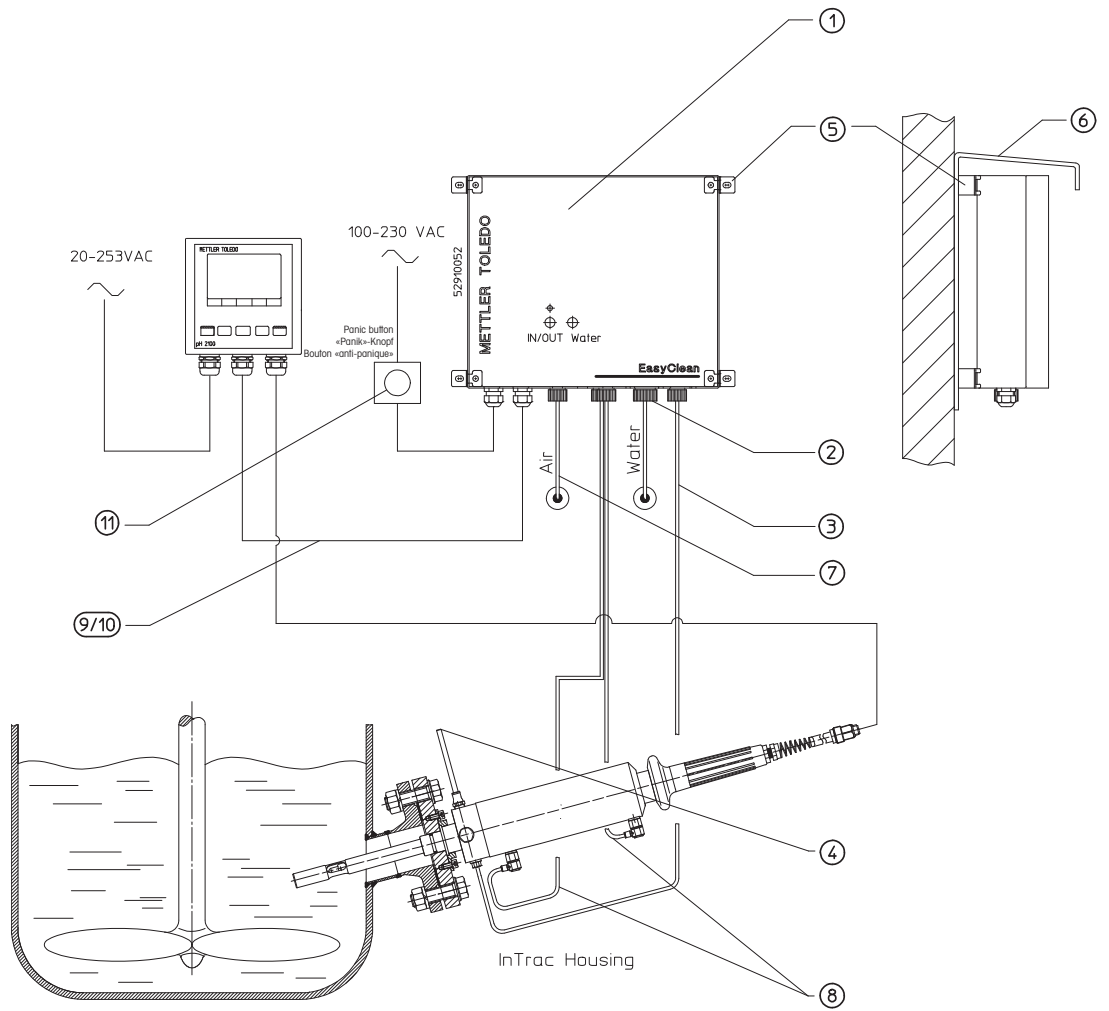


Transmitter Trb 8300

Define rinse interval and rinse time according to the process requirements on the transmitter Trb 8300.



EasyClean 100 and 150 are designed to work together with Mettler Toledo transmitters. Please consult relevant instruction manuals of third party transmitters for proper installation.



The EasyClean 150 delivery consists of the following:

| N° | Designation | Order no. |
|----|---|------------|
| 1 | EasyClean 150 | 52 402 319 |
| 2 | Water connection: G 1/4" female or 1/4" NPT male | |
| 3 | Connecting hose: Ø 6/4 mm, length 5 m (16.4 ft), material LDPE → connection control unit → retractable housing | |
| 4 | Drainwater hose: Ø 6/4 mm, length 5 m (16.4 ft), material LDPE → connection retractable housing → drain | |

| Accessories and spare parts (to be ordered separately) | | |
|---|---|------------|
| 3/4 | Tubing PTFE 6/4 mm (5 m/16.4 ft) | 52 402 283 |
| 5 | Wall mounting kit, complete | 52 402 306 |
| 6 | Weatherproof hood | 52 402 316 |
| 7 | Hose LDPE for compressed air connection (20 m/65.6 ft) | 52 402 314 |
| 8 | Pneumatics hose PU 6/4 mm, (10 m/32.8 ft) | 52 401 322 |
| 9 | Connecting cable: control unit → transmitter (5 m/16.4 ft) | 52 300 265 |
| 10 | Connecting cable: control unit → transmitter (10 m/32.8 ft) | 52 300 266 |
| 11 | Panic button (emergency shutdown) | 52 402 317 |
| | Pipe/post mounting kit, complete (description on page 15) | 52 402 308 |
| | Instruction manual EasyClean 100/150 (e/g/f) | 52 500 178 |

EasyClean 200e – chemical sensor cleaning system for use with InTrac retractable housings



Heavy contamination of sensors has a direct impact on their performance and serviceable life. Only a clean sensor can guarantee optimum performance and accuracy in a process. EasyClean 200e has been developed specially for the regular cleaning of sensors in processes where there is a latent risk of fouling. To avoid any changes in the potential of the sensor due to fouling, EasyClean 200e first flushes the sensor with water and then cleans it with an individual cleaning agent according to the degree of contamination. The cleaning cycle is activated by the "Wash" contact of the transmitter. EasyClean controls the entire cleaning sequence for a sensor fitted in an InTrac retractable housing.

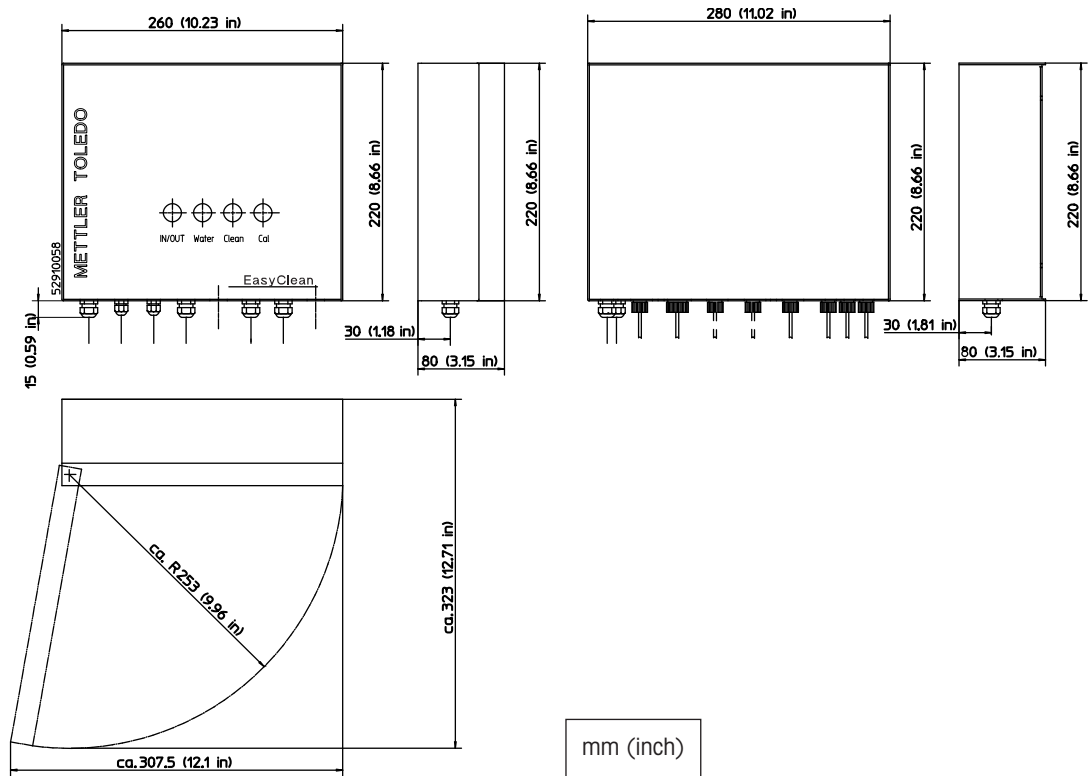
The position of the retractable housing can be continuously monitored by an inductive position indicator. In the event of faulty operation of the system or of the retractable housing, the control unit of the EasyClean activates an alarm contact. Triggering of the cleaning cycle can be automated through the "Wash" contact in the transmitter, or manually by pressing the appropriate key on the EasyClean control unit.

Strict isolation of the electronics from the wet areas allows safe operation using appropriate cleaning solutions. The diaphragm pump installed in the valve assembly guarantees optimal cleaning at a predefined cleaning solution concentration.

Added accessories also allow the system to be adapted individually to suit local requirements.

Dimensions EasyClean 200e

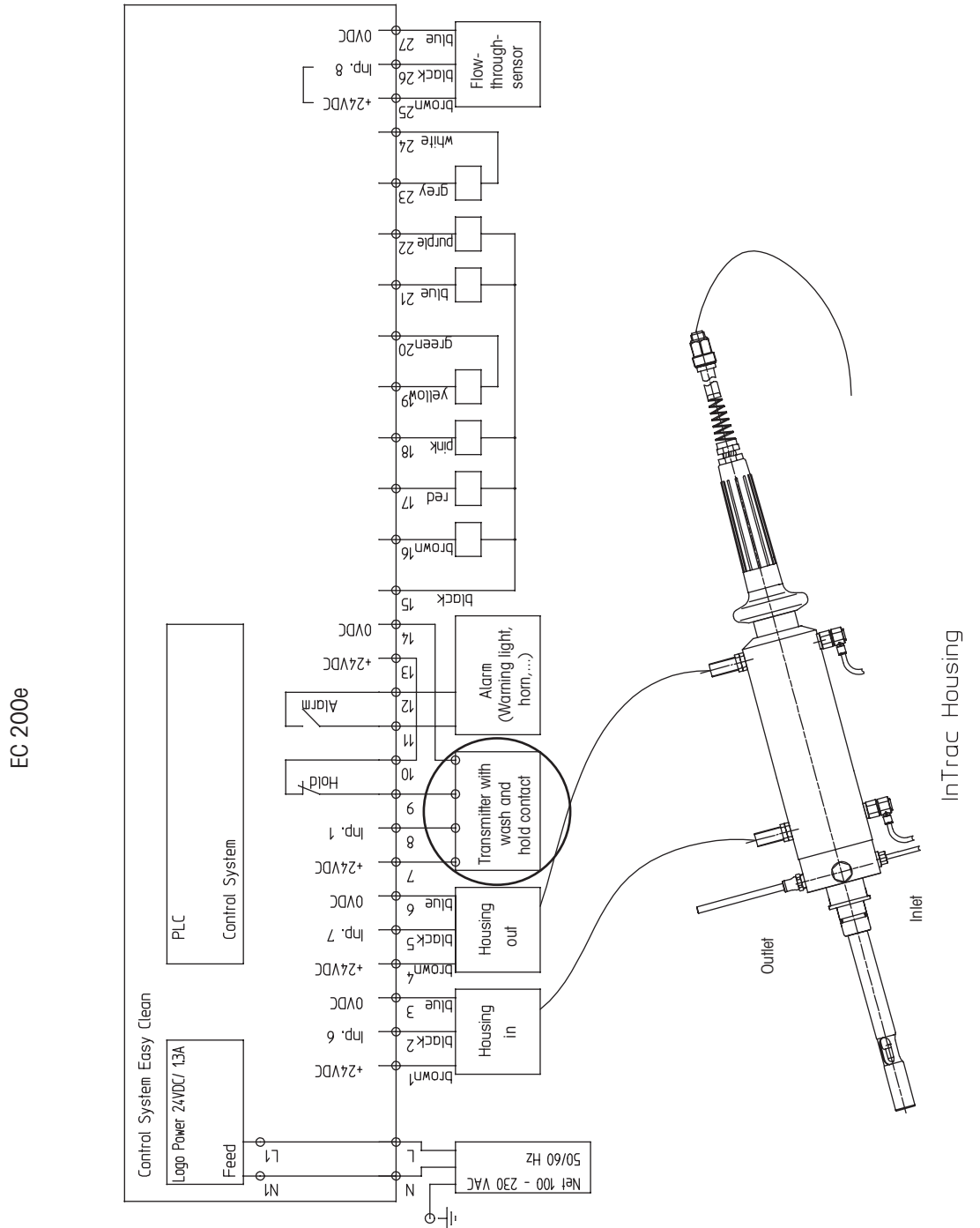
For the exact dimensions relative to pipe/post or wall mounting, please refer to the specifications on pages 14 and 15 of this documentation.



mm (inch)

Electrical connections EasyClean 200e

Electrical connections of EasyClean 200e and a transmitter.



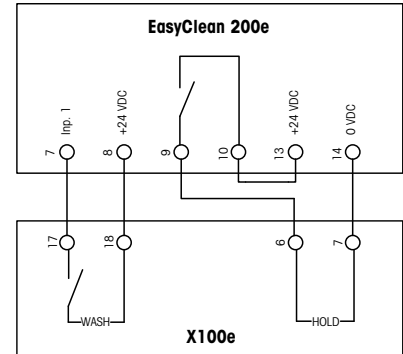
System configuration and ordering information EasyClean 200e

Transmitter X100e

NOTICE

Bridge terminal 10 and 13 in the EasyClean 200e.

Set rinse time to 5 sec. at the transmitter X100e and define the rinse interval according to the process requirements. Furthermore define rinse time (T2) and residence time for cleaning agent (T3) on the EasyClean 200e.

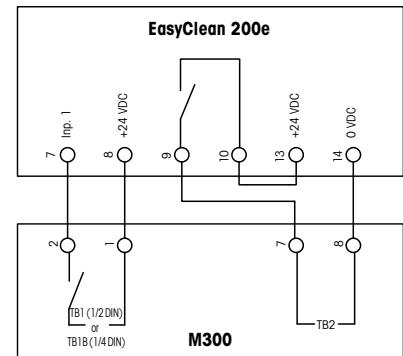


Transmitter M300

NOTICE

Bridge terminal 10 and 13 in the EasyClean 200e.

Set relay #1 (default) or #2, #3, #4 on the transmitter to rinse contact. Set rinse time to 5 sec. at the transmitter M300 and define the rinse interval according to the process requirements. Furthermore define rinse time (T2) and residence time for cleaning agent (T3) on the EasyClean 200e.

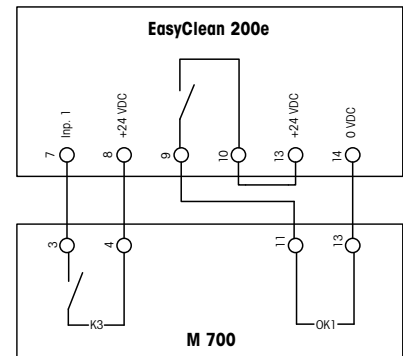


Transmitter M 700

NOTICE

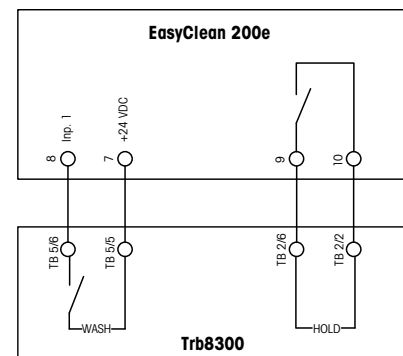
Bridge terminal 10 and 13 in the EasyClean 200e.

Set relays K3 (K1 or K2) to rinse contact and NO (normally open). Set rinse time to 5 sec. at the transmitter M 700 and define the rinse interval according to the process requirements. Furthermore define rinse time (T2) and residence time for cleaning agent (T3) on the EasyClean 200e. Set input OK1 to HOLD (active 10–30V) for the external hold signal.

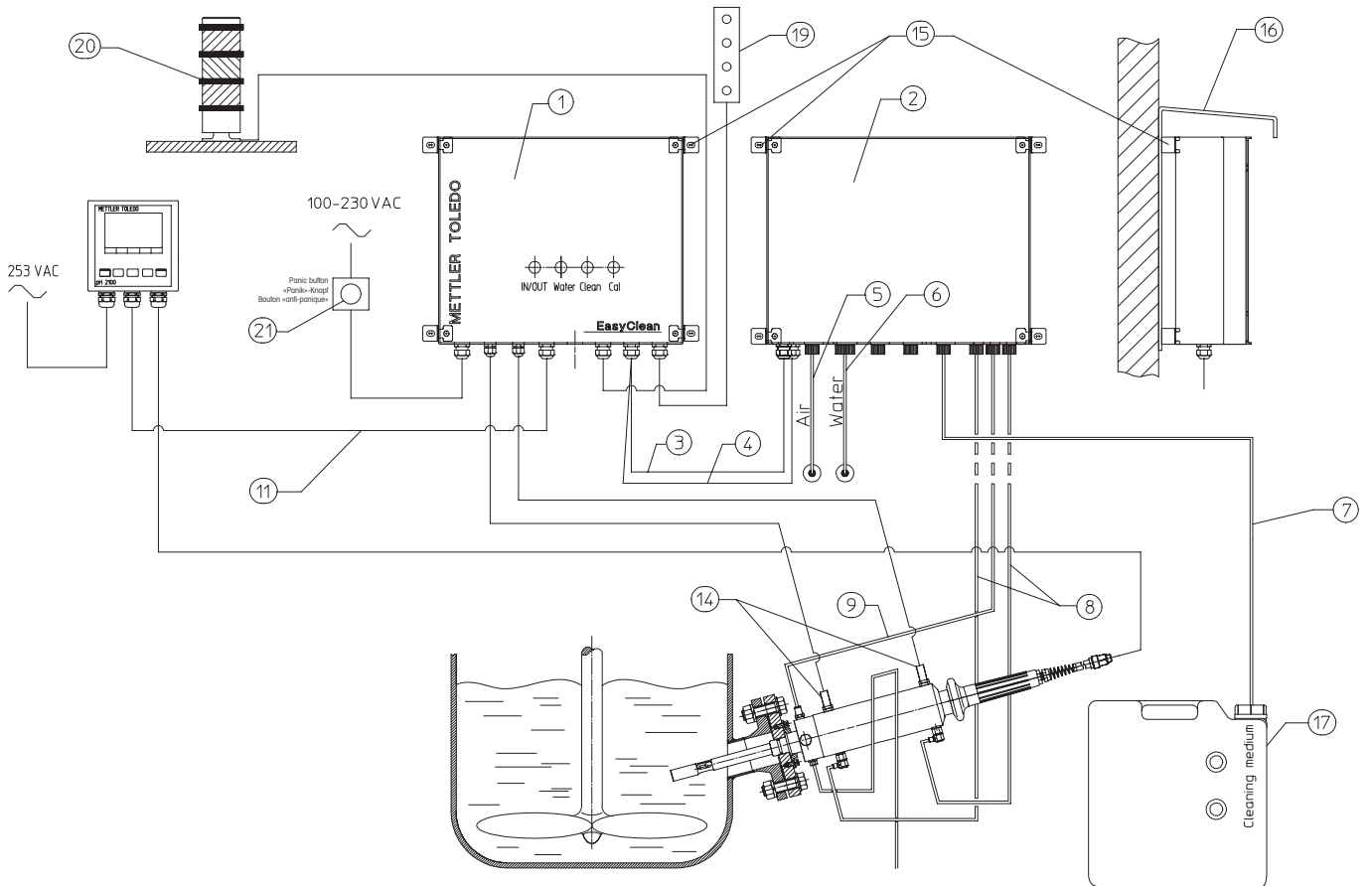


Transmitter Trb 8300

Set rinse time to 5 sec. at the transmitter Trb8300 and define the rinse interval according to the process requirements. Furthermore define rinse time (T2) and residence time for cleaning agent (T3) on the EasyClean 200e.



System configuration and ordering information EasyClean 200e



The EasyClean 200e delivery consists of the following:

| N° | Description | Order no. |
|----|---|------------|
| 1 | EasyClean 200e control unit with PLC (programable logic controller) | 52 403 776 |
| 2 | Valve assembly with valves for hydraulics and control air | |
| 3 | Connecting cable: control unit → valve assembly, 1.5 m (5 ft) | |
| 6 | Water connection: G 1/4" female or 1/4" NPT male | |
| | Tubing: ∅ 6/4 mm, length 20 m (65.6 ft), material LDPE | |
| 8 | EasyClean → InTrac (pneumatic) | |
| 10 | InTrac → drain | |
| | ∅ 6/4 mm, length 10 m (32.8 ft), material PTFE | |
| 9 | EasyClean → InTrac (liquids) | |
| 7 | EasyClean → cleaning agent canister | |

Optional accessories and installation material

| | | |
|----|--|------------|
| 4 | Connecting cable: EasyClean 200e → valve unit (20 m/65.6 ft) | 52 403 780 |
| 8 | Tubing LDPE for compressed air connection (20 m/65.6 ft) | 52 402 314 |
| 9 | Tubing PTFE, ∅ 6/4 mm (5 m/16.4 ft) | 52 402 283 |
| 11 | Connecting cable: control unit → transmitter (5 m/16.4 ft) | 52 300 265 |
| 11 | Connecting cable: control unit → transmitter (10 m/32.8 ft) | 52 300 266 |
| 14 | Inductive check-back position indicators (2 pcs) | 52 403 024 |
| 15 | Wall mounting kit, complete | 52 402 306 |
| 16 | Weatherproof hood | 52 402 316 |
| 17 | Compact canister, 5000 ml/empty | 52 118 063 |
| 19 | Remote control | 52 402 355 |
| 20 | Warning light | 52 402 351 |
| 21 | Panic button (emergency shutdown) | 52 402 317 |
| | Pipe/post mounting kit, complete (description on page 15) | 52 402 308 |
| | Flow sensor (into valve assembly) | 52 403 535 |

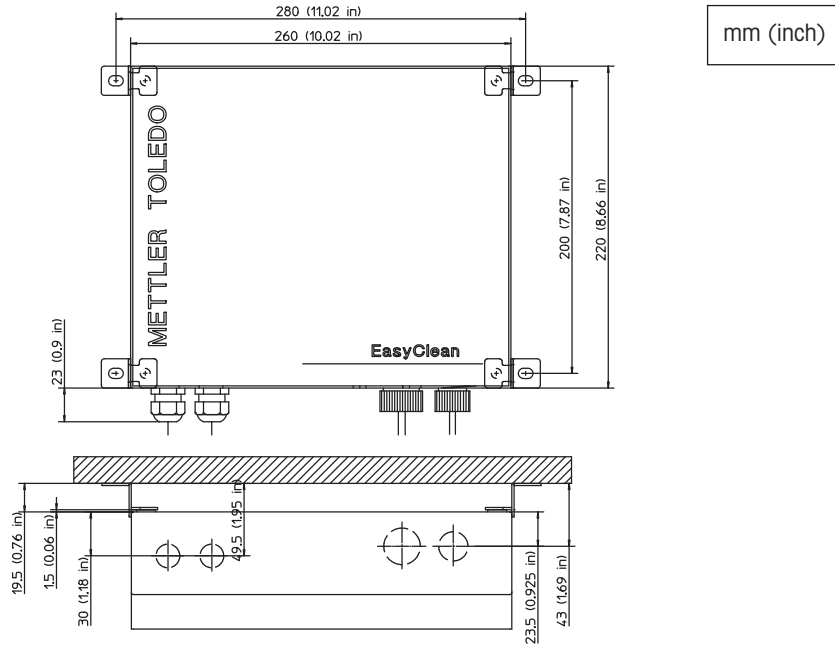
Documentation

| | | |
|--|---|------------|
| | Instruction manual EasyClean 200e (e/g/f) | 52 403 781 |
|--|---|------------|

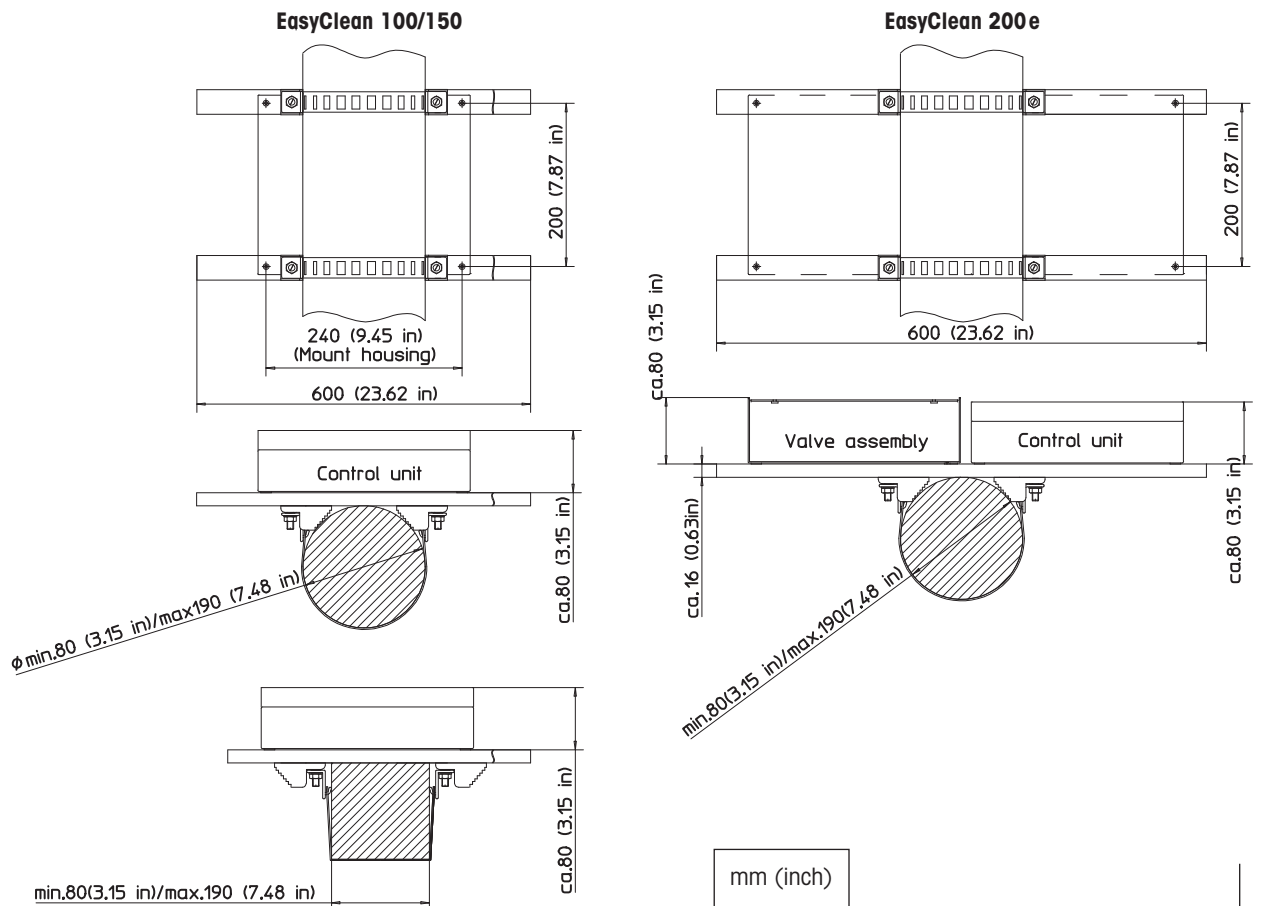
Spare parts

| | | |
|--|-------------------------------|------------|
| | Power unit | 52 402 305 |
| | Print with PLC EasyClean | 52 402 400 |
| | Control unit EasyClean 200e | 52 403 777 |
| | Water and air valve | 52 403 531 |
| | Cleaning medium valve | 52 403 530 |
| | Valve assembly EasyClean 200e | 52 403 778 |
| | Air control valve housing | 52 402 320 |
| | Diaphragm pump | 52 403 536 |
| | Spare part kit pump | 52 403 592 |

Wall mounting EasyClean 100/150/200e



Pipe/post mounting EasyClean



Specifications

EasyClean 100/150/200e

| Product type | EasyClean 100/150 | EasyClean 200e |
|----------------------------------|---|--|
| Housing | Steel housing, powder-coated with polyester resin material: Mild steel DIN 1.1203 Ck 55 Attention: housing may not be cleaned with solvents containing acetone | Steel housing, powder-coated with polyester resin material: Mild steel DIN 1.1203 Ck 55 Attention: housing may not be cleaned with solvents containing acetone |
| Weight of control unit | Approx. 3 kg (6.6 lbs) | Approx. 3 kg (6.6 lbs) |
| Weight of valve assembly | – | Approx. 2.5 kg (5.5 lbs) |
| Protection rating | IP 65 | IP 65 |
| Ambient conditions | Temperature in operation: 0 ... 55 °C (32 ... 131 °F) Transport/storage temperature: –10 ... +70 °C (+14 ... 158 °F) Degree of pollution: 2 Overvoltage category: III | Temperature in operation: 0 ... 55 °C (32 ... 131 °F) Transport/storage temperature: –10 ... +70 °C (+14 ... 158 °F) Degree of pollution: 2 Overvoltage category: III |
| Power supply | 100 ... 230 V AC, 50/60 Hz, 0.18 ... 0.3 A (± 15%) | 100 ... 230 V AC, 50/60 Hz, 0.18 ... 0.3 A (± 15%) |
| System control | Process initiation: via a "Wash" contact in the associated transmitter Sequence: cannot be set on unit | Process initiation: via a "Wash" contact in the associated transmitter Sequence: controlled by the integrated programable PLC |
| Control input | 1 control input for "Wash" contact in transmitter 24 V | 1 control input for "Wash" contact in transmitter 24 V |
| Transmitter | METTLER TOLEDO transmitters: – X050e, X100e – M 700, Trb 8300 – alternatively through any standard transmitter with "Wash" contact and "Hold" function | METTLER TOLEDO transmitters: – X050e, X100e – M 700, Trb 8300 – alternatively through any standard transmitter with "Wash" contact and "Hold" function |
| Electr. connections | Terminal strip 0.08 ... 2.5 mm ² | Terminal strip 0.08 ... 2.5 mm ² |
| Connection to valve unit | – | 10-wire control cable Length: standard 1.5 m (5 ft) optional 20 m (65.6 ft) |
| Connection to transmitter | 4-wire control cable, 4 x 0.5 mm ² Length: 5 m (16.4 ft), optional 10 m (32.8 ft) | 4-wire control cable, 4 x 0.5 mm ² Length: 5 m (16.4 ft), optional 10 m (32.8 ft) |
| Cable ducts | ∅ 3.5 ... 10 mm → M 16 | ∅ 3.5 ... 10 mm → M 16 ∅ 2.5 ... 6.5 mm → M 12 |
| Compressed air supply | 4 ... 8 bar (400 ... 800 kPa, 58 ... 116 psi) Air quality according to ISO 8573-1 Moisture class 4 (dew point +3 °C) Particles class 5 (filter 40 µm) Max. oil content class 2 (0.1 mg/m ³) Connection: thread G ¹ / ₈ " | 4 ... 8 bar (400 ... 800 kPa, 58 ... 116 psi) Air quality according to ISO 8573-1 Moisture class 4 (dew point +3 °C) Particles class 5 (filter 40 µm) Max. oil content class 2 (0.1 g/m ³) Connection: thread G ¹ / ₈ " |

Specifications

EasyClean 100/150/200e

| Product type | EasyClean 100/150 | EasyClean 200e |
|--|---|---|
| Connection to InDip housing | Hose LDPE Tubing PTFE (optional) Ø 6/4 mm (1/8"/1/4") | – |
| Connection to retractable housing | Hose LDPE Tubing PTFE (optional) Ø 6/4 mm (1/8"/1/4") | Pneumatics: LDPE hose Ø 6/4 mm (1/8"/1/4"), control air Medium: PTFE hose Ø 6/4 mm (1/8"/1/4") Hose length typ. 5 m (16.4 ft) Hose length max. 10 m (32.8 ft) |
| Flushing water supply | Pressure: 2 ... 6 bar (200 ... 600 kPa, 29 ... 87 psi) Connection: thread G1/4" female Adapter: 1/4" NPT male (PP) | Pressure: 2 ... 8 bar (200 ... 800 kPa, 29 ... 116 psi) Connection: thread G1/4" female Adapter: 1/4" NPT male (PP) Particle filter: 50 µm Volume: ≥ 4 l/min. |
| Pump | – | Pump height: max. 5 m (16.5 ft.) Suction height: max. 3 m (9.8 ft.) Feed rate: 3 ... 5 ml/s (depending on hose length and viscosity) Materials: PPS (pump body) EPDM (membrane and sealings) Connection: thread G1/8" female, polymer (PP) |
| Viscosity | – | All liquids 25 mPa s/25 °C (77 °F) |
| Spray head material | PVC or PVDF | – |
| Wetted materials, in contact with | Flushing water, compressed air or cleaning medium: 1.4105, 1.4303, 1.4310 PP, LDPE, Viton®, brass, | Rinsing water: PP, EPDM, PTFE, PPS, Ni Compressed air: PP, EPDM, PTFE, PPS, LDPU, Ni Cleaning agents: PP, FFKM, PTFE, EPDM, PEEK |
| Liquid temperatures | – | Water: 0 ... 80 °C, max. 10 min/h at 95 °C (32 ... 176 °F, 203 °F) Cleaning agents: 0 ... 50 °C (32 ... 122 °F) |

Conformity

Low voltage guidelines

- EU guidelines 73/23/EG
- Swiss guidelines SR734.26 NEV
- Safety regulations EN61010-1
- IP protection rating EN60529 IP65

EMC guidelines

- Emission EN61326-1, class B
- Harmonic oscillation EN61000-3-2
- Voltage fluctuation EN61000-3-3
- Immunity EN61326-1

Certificates

| | CE | GS | ATEX | UL Class I Div I | NEPSI |
|----------------|----|----|------|---------------------|-------|
| EasyClean 100 | • | • | – | – | – |
| EasyClean 150 | • | • | – | – | – |
| EasyClean 200e | • | • | – | – | – |

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