# **Automated Sensor Maintenance**

# For Process Consistency



#### **Reliable Process Control**

Automated sensor maintenance with the EasyClean 500 and ISM's predictive diagnostics ensure reliable measurements and process consistency.



#### Up to 80 % Lower Maintenance

The only technician intervention on an EasyClean 500 system is periodic refilling of cleaning and buffer solutions, plus occasional sensor exchanges.





#### **Keeps Employees Safe**

Automated maintenance limits personnel's exposure to health-hazardous environments, helping to keep them safe.



#### For High-Maintenance Measurement Points

Some maintenance-intensive measurement points in harsh process conditions are too expensive to operate. The EasyClean 500 cleans the sensors automatically as often as required, making such measurement points economically viable.

### EasyClean 500(X)

Automated Sensor Cleaning and Calibration

EasyClean 500(X) is a compact cleaning and calibration system for fully automated routine maintenance of process analytical sensors. The EasyClean 500(X) uses Intelligent Sensor Management (ISM<sup>TM</sup>) predictive diagnostics to automate and optimize the cleaning and calibration of pH, ORP, or oxygen sensors – for reliable measurements without human intervention. EasyClean 500(X) is a versatile solution that offers extensive customization options and multiple control possibilities, allowing users to tailor the unit to their specific needs.

Discover EasyClean 500(X) at www.mt.com/EC500



# Technical Data of the EasyClean 500(X)

| Specifications                             |   |
|--|---|
| Operating Pressure for Retractable Housing | 0.4 ~ 0.8 MPa (4 ~ 8 bar; 58 ~ 116 psi)   |
| Protection Rating                          | IP 65   |
| Rinsing Water Supply                       | 0.2~0.6 MPa (2~6 bar; 29~87 psi)  |
| Temperature Range                          | 2°C-65°C, 90°C as an option   |
| Rinsing                                    | Yes   |
| Cleaning                                   | Yes   |
| Calibration                                | Yes   |
| Compressed Air Supply                      | 0.4 ~ 1 Mpa (4 ~ 10 bar; 58 ~ 145 psi)  |
| Parameter(s)                               | pH/ORP/DO   |
| Canister                                   | 4L  |
| Ambient Temperature                        | 2°C – 55°C  |
| Power                                      | 15V~30 V/100 mA, Safety barrier required for Ex version   |
| Mounting                                   | Wall mounting, Pipe mounting (option)   |
| Communication Protocol                     | HART (via transmitter)  |
| Enclosure Material                         | 316L stainless steel  |
| Certificates and Approvals                 | ATEX II 2(1) G / IECEx Ex ib; cCSAus Class I,<br>Zone O, AEx;<br>NEPSI Ex; FM Class I, Zone O (Q2 2025) |



## Ordering Information

| EasyClean                    | Order Nr.                            |
|------------------------------|--------------------------------------|
| EasyClean 500                | 30 900 558                           |
| EasyClean 500X               | 30 900 560                           |
| Transmitter                  | Order Nr.                            |
| M400 2XH Type 2              | 30 655 901                           |
| M400 2H Type 2               | 30 655 902                           |
| M400 2XH Type 2 ISM          | 30 655 903                           |
| M400 2H Type 2 ISM           | 30 655 904                           |
| M400 2XH Type 3 ISM          | 30 655 905                           |
| M400 2XH Type3 ISM           | 30 655 908                           |
| Housing                      | Order Nr.                            |
| InTrac 77XP                  | Refer to housing's order information |
| Calibration Supplies         | Order Nr.                            |
| Buffer pH 4.01, 5000 ml      | 51 319 012                           |
| Buffer pH 7.00, 5000 ml      | 51 319 016                           |
| Buffer pH 9.21, 5000 mI      | 51 319 017                           |
| EasyClean 500(X) Services    | Order Nr.                            |
| Setup Standard Configuration | \$39905182                           |
| ExtendedCare                 | B39950001                            |
| Basic Preventive Maintenance | \$39905130                           |
| Full Preventive Maintenance  | \$39905133                           |
| Solution Consultation        | S39905100                            |





#### Non-Ex EasyClean 500: > www.mt.com/EC500





# Ordering information for customizable configuration

#### Configure your EasyClean 500(X) as following:

| Control Unit* (with wall mounting)                                   | Order Nr.  |
|--|------------|
| Ex version   | 30 944 327 |
| Non-Ex version   | 30 944 386 |
|  |            |
| Media connection*  | Onder No   |
| (incl. the cables for proximity switches and a multiplug to housing) | Order Nr.  |
| Cable 2.1 m  | 30 973 995 |
| Cable 5 m  | 30 900 571 |
| Cable 10 m   | 30 900 572 |
| Pipe-mount   | Order Nr.  |
| Pipe-mount kit for control box and media adapter                     | 30 900 566 |
| Cable* (from transmitter to control unit)                            | Order Nr.  |
| 2 m  | 30 946 518 |
| 10 m   | 30 924 524 |
| High temperature Rinsing   | Order Nr.  |
| High-temp rinsing box  | 30 944 378 |
| Number of Pumps* (including a Media Adapter)                         | Order Nr.  |
| 1 dosing pump and 1 canister, Non-Ex                                 | 30 944 379 |
| 2 dosing pumps and 2 canisters, Non-Ex                               | 30 944 380 |
| 3 dosing pumps and 3 canisters, Non-Ex                               | 30 944 381 |
| 1 dosing pump and 1 canister, Ex                                     | 30 944 382 |
| 2 dosing pumps and 2 canisters, Ex                                   | 30 944 383 |
| 3 dosing pumps and 3 canisters, Ex                                   | 30 944 384 |
| * An EasyClean 500(X) consists of these components                   |            |

#### EasyClean 500(X) Spare Parts

| Description   | Order Nr.  |
|---|------------|
| Pipe-mount kit for Control box and media adapter                        | 30 900 566 |
| 2.1 m media connection with multiplug (proximity switches not included) | 30 973 994 |
| 5 m media connection with multiplug (proximity switches not included)   | 30 900 567 |
| 10 m media connection with multiplug (proximity switches not included)  | 30 944 385 |
| Dosing pump Ex Version  | 30 900 574 |
| Dosing pump Non-Ex Version  | 30 900 575 |
| Media adapter   | 30 782 822 |
| Canister (4L)   | 30 900 577 |
| Inductive position switch, Ex   | 30 900 578 |
| Air filter kit for control unit   | 30 900 568 |

#### **Customizable Order Example:**

Requirements

- Ex version control unit
- 5 m media connection
- 10 m cable between transmitter and control unit
- 2 dosing pumps and 2 canisters, Ex)

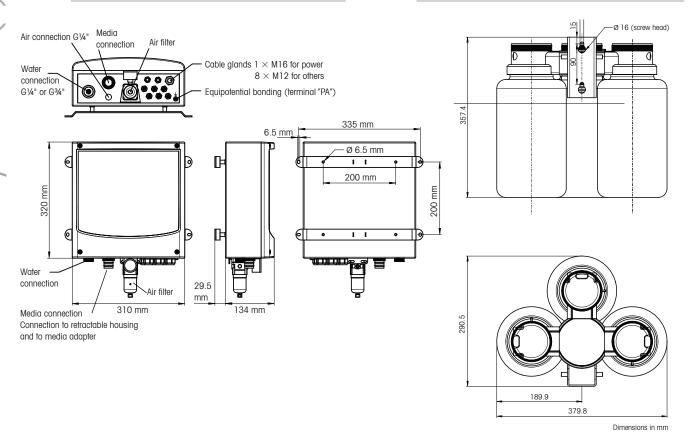
| Item                     | Order number |
|--------------------------|--------------|
| EasyClean 500X           |              |
| control unit             | 30 944 327   |
| Media connection 5 m     |              |
| (with proximity switches | 30 900 571   |
| Cable, 10 m (transmitter |              |
| to control unit)         | 30 924 524   |
| 2 dosing pumps           |              |
| and 2 canisters, Ex      | 30 944 383   |
|                          |              |

### EasyClean 500(X)

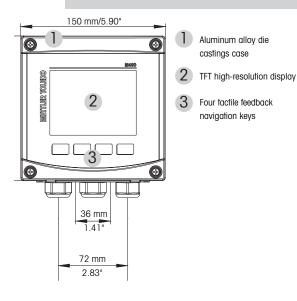
### **Dimensional Drawings**

#### Dimension of control unit wall mounting

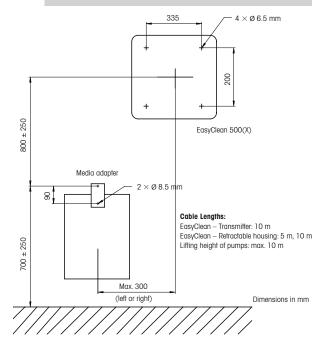
#### Media adapter with dosing pumps



#### 1/2 DIN case size of M400 transmitter



#### **Arrangement of components**





#### **METTLER TOLEDO Group**

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Subject to technical changes.
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For more information

