EasyClean 500(X)

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™) 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**

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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	4 L
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, Zone 0, AEx; NEPSI Ex; FM Class I, Zone 0 (Q2 2025)

Ordering Information

EasyClean	Order Nr.
EasyClean 500	30 900 558
EasyClean 500 X	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 Type 3 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 ml	51 319 017

EasyClean 500(X) Services	Order Nr.
Setup Standard Configuration	S39905182
ExtendedCare	B39950001
Basic Preventive Maintenance	S39905130
Full Preventive Maintenance	S39905133
Solution Consultation	S39905100

Non-Ex EasyClean 500: ▶ **www.mt.com/EC500**

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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* **(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 (4 L)	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)

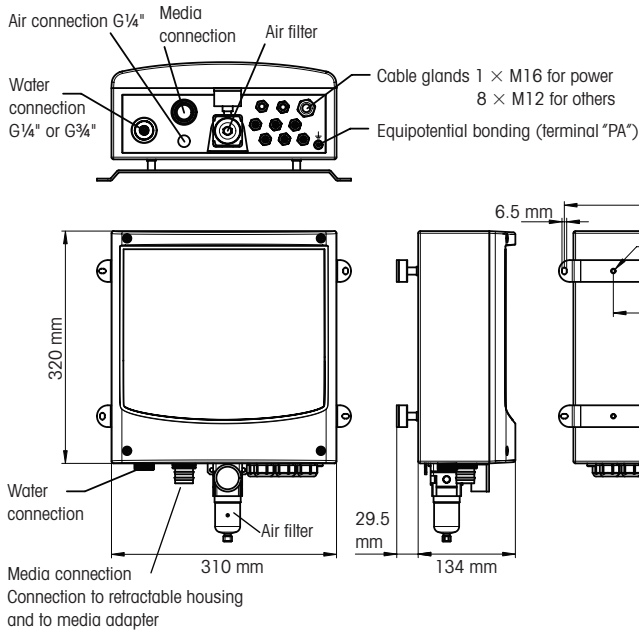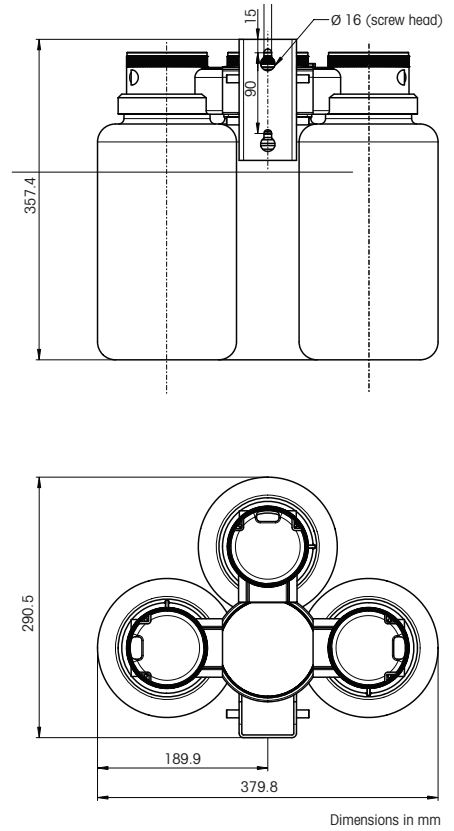| Item	Order number
EasyClean 500X control unit	30 944 327
Media connection 5 m (with proximity switches)	30 900 571
Cable, 10 m (transmitter to control unit)	30 924 524
2 dosing pumps and 2 canisters, Ex	30 944 383

EasyClean 500(X)
Dimensional Drawings

Dimension of control unit wall mounting

Air connection G¼"
Media connection
Air filter
Water connection G¼" or G¾"
Cable glands 1 × M16 for power 8 × M12 for others
Equipotential bonding (terminal "PA")

320 mm
6.5 mm
335 mm
Ø 6.5 mm
200 mm
200 mm

Water connection
Air filter
29.5 mm
310 mm
134 mm

Media connection
Connection to retractable housing and to media adapter

Media adapter with dosing pumps

15
Ø 16 (screw head)
90
357.4

290.5
189.9
379.8

Dimensions in mm

½ DIN case size of M400 transmitter

150 mm/5.90"

1 Aluminum alloy die castings case

2 TFT high-resolution display

3 Four tactile feedback navigation keys

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M400

36 mm
1.41"
72 mm
2.83"
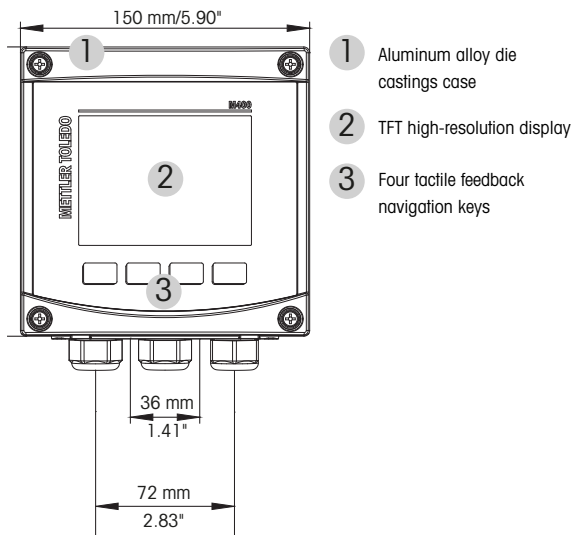
Arrangement of components
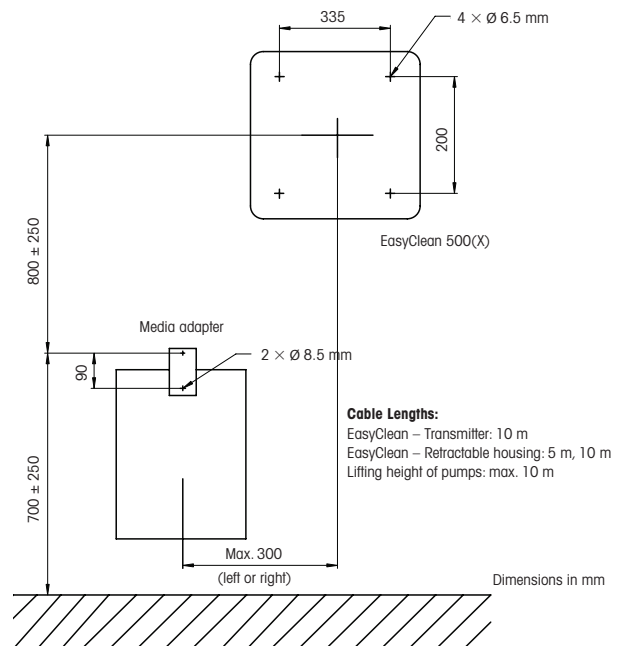
335
4 × Ø 6.5 mm
200

EasyClean 500(X)

800 ± 250

Media adapter
2 × Ø 8.5 mm
90

700 ± 250

Max. 300
(left or right)

Cable Lengths:
EasyClean – Transmitter: 10 m
EasyClean – Retractable housing: 5 m, 10 m
Lifting height of pumps: max. 10 m

Dimensions in mm

www.mt.com/pro

For more information