

Universal suspension assembly holders *CYH 101*

**For pH, redox, oxygen, conductivity assemblies,
oxygen and turbidity sensors**
With weather protection cover CYY 101



Areas of application

The universal suspension assembly holder CYH 101 mounted on an upright post is designed for use in open channels, basins or tanks. Typical areas of application are:

- Sewage treatment plant inflow and outflow, activated sludge basins.
- Waste water treatment plants, neutralisation basins.

The CYH 101 is intended to suspend the following assemblies:

- Dipsys CPA 510, CPA 530 or CPA 610 pH assemblies with support brackets
- Smartec CLD 130-EH ... conductivity measuring system

- Oxygen assembly COA 110 – 40

Direct attachment of the following sensors into the tube is also possible:

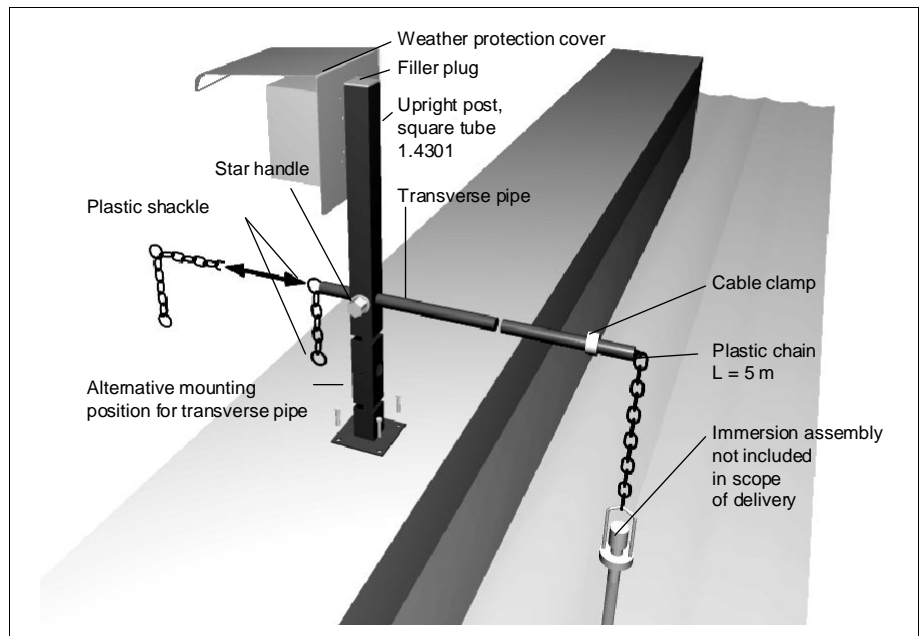
- Oxygen sensor COS 3
- Turbidity sensor CUS 1

Benefits at a glance

- Simple and easy installation on basin rims
- Flexible adaptation to local mounting conditions due to various mounting options and adjustments
- The transverse pipe can be easily rotated and the suspension chain can be raised or lowered to permit optimal measuring point adjustment without the need to reinstall or interrupt operation
- Pendulum motion promotes the sensor self-cleaning effect
- The upright post is prepared for mounting of a field measuring transmitter
- In installations with turbulent currents or in the case of flow rates above 0.5 m/s in narrow channels, the immersion tube design ensures stability

Notes on installation CYH 101-A

Overall representation
of universal suspension
assembly holder
CYH 101 with weather
protection cover
CYY 101

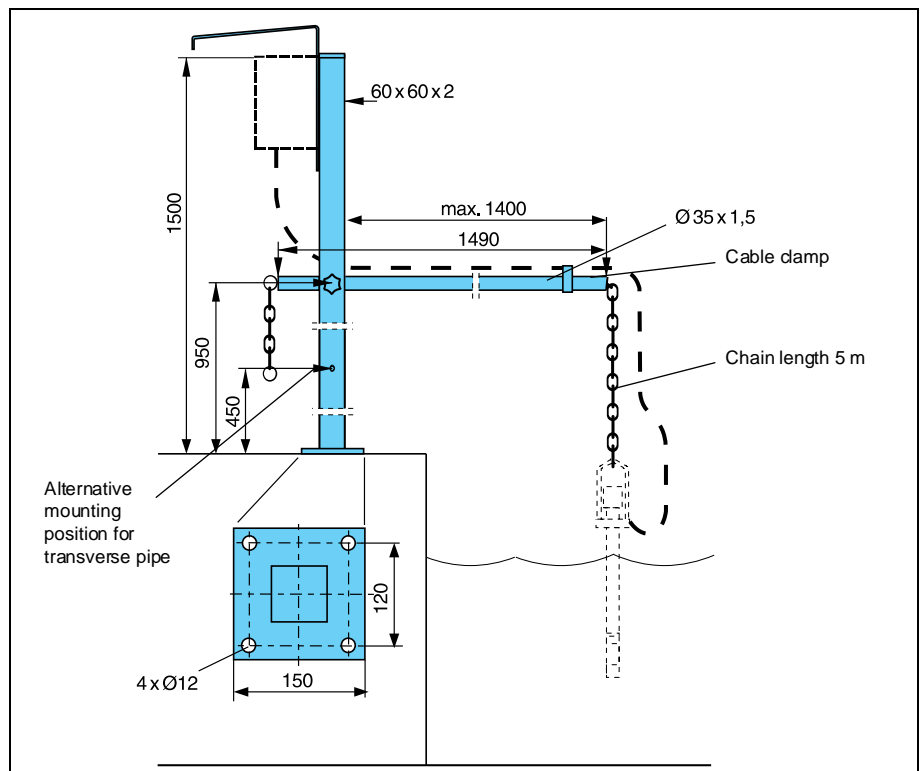


The universal suspension assembly holder CYH 101 is intended for installation on basin or channel rims. This upright post for permanent installation holds up to two transverse pipes at one of two possible heights. An easily operated star handle is used to fix the transverse pipe in the desired position. The plastic chain threaded through the transverse pipe holds the assembly with the sensor.

A plastic shackle is used to fix the chain in the desired position.

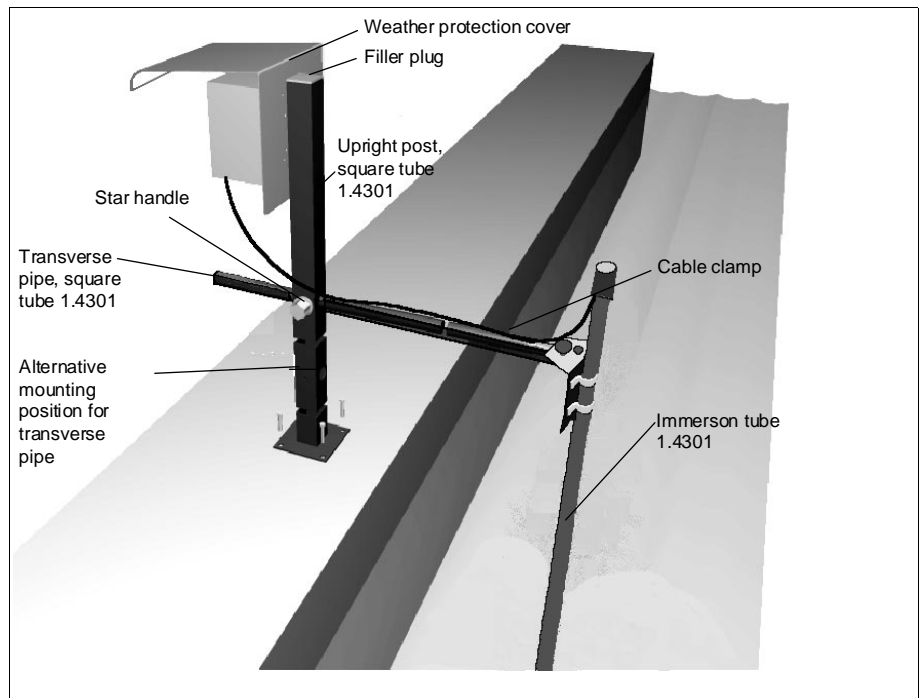
For convenience, a measuring transmitter (field housing version) can be attached to the upright post. This requires the optional stainless steel weather protection cover CYY 101. The various field housing versions of the following E+H Conducta measuring transmitter series can be installed on the upright post:
C . M 240 and C . M 151

Dimensions



Notes on installation CYH 101-D/-E

Overall representation
of universal suspension
assembly holder
CYH 101-D/-E with
weather protection
cover CYY 101



Assembly holder with immersion tube

For oxygen and turbidity sensors

(variants CYH 101-D, CYH 101-E)

For floor installation on basin and
channel rims.

The upright post, permanently attached
to the floor by screws, supports a
transverse pipe (square tube).

The transverse pipe can be installed at
two different heights.

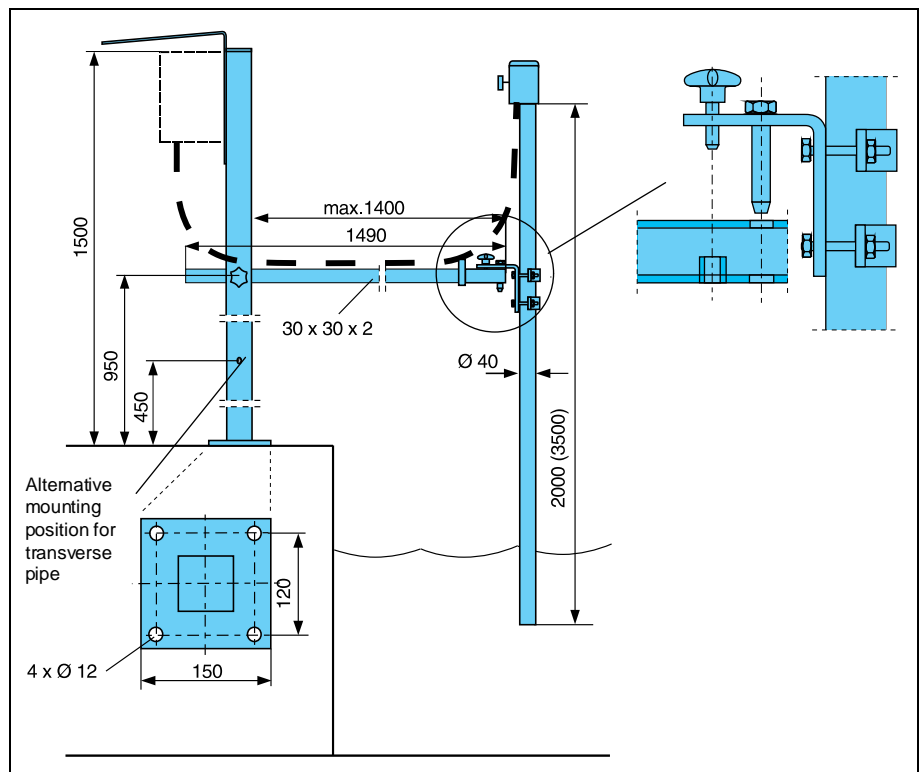
The immersion tube is attached to the
vertical side of the transverse pipe
angle bracket by 2 screwed brackets.

The horizontal side of the angle bracket
is equipped with a locating pin and a
fastening screw with a star handle.

This construction assures quick and
simple attachment to the transverse
pipe.

The rigid attachment to the transverse
pipe helps hold the sensor in a fixed
position, thereby assuring reproducible
sensor positioning while at the same
time optimising the self-cleaning effect,
especially at medium flow rates above
0.5 m/s. The upright post is ready for
mounting a measuring transmitter
(field housing version).

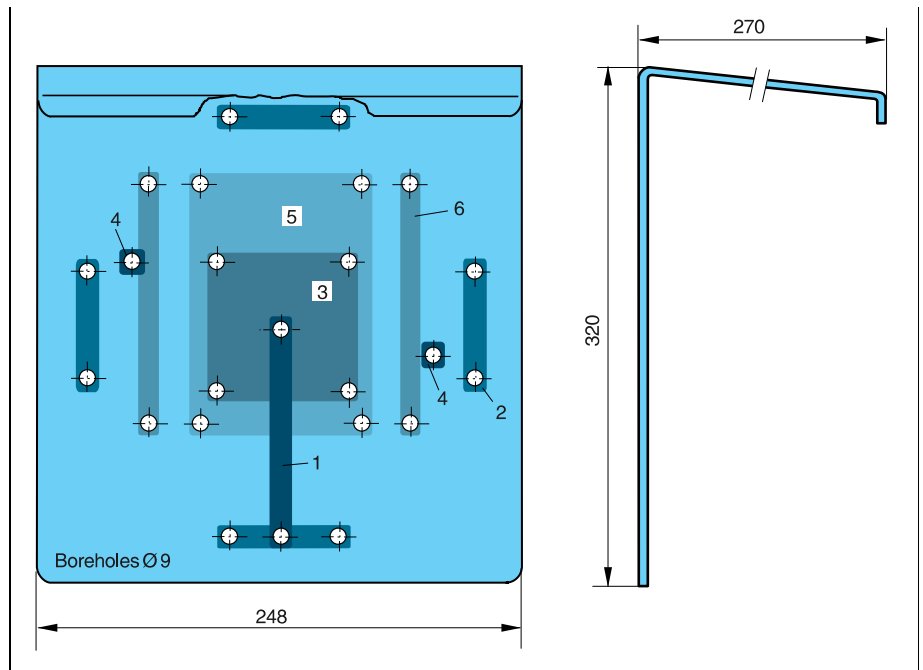
Dimensions



Mounting dimensions
CYH 101-D or -E
(in mm)

Dimensions of weather protection cover CYY 101

Weather protection
cover CYY 101

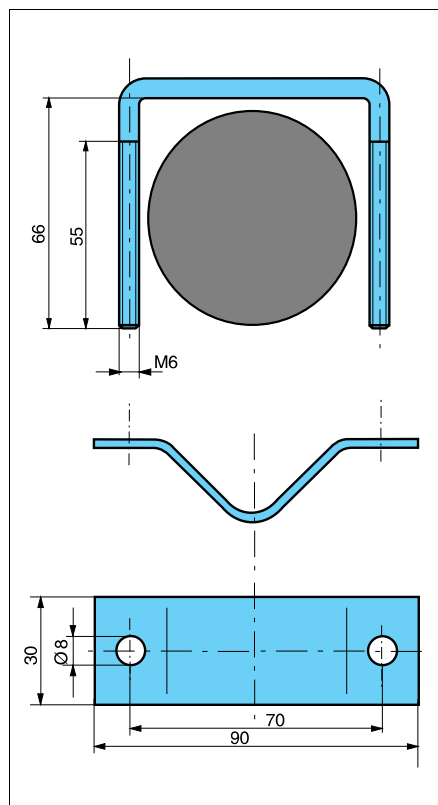


- Installation of weather protection cover on upright post with 2 screws (M8) in threaded holes provided.
See borehole position 1
- Installation of weather protection cover on a vertical or horizontal pipe with 2 round post mounts (see accessories).
See borehole positions 2
- Post mounting of measuring transmitter in field housing, e.g. CUM 151.
See borehole position 3
- Wall mounting of measuring transmitter in field housing, e.g. CUM 151.
See borehole positions 4
- Post mounting of measuring transmitter in field housing, e.g. CUM 141.
See borehole position 5
- Wall mounting of measuring transmitter in field housing, e.g. CUM 141.
See borehole position 6

Accessories

Mounting dimensions:

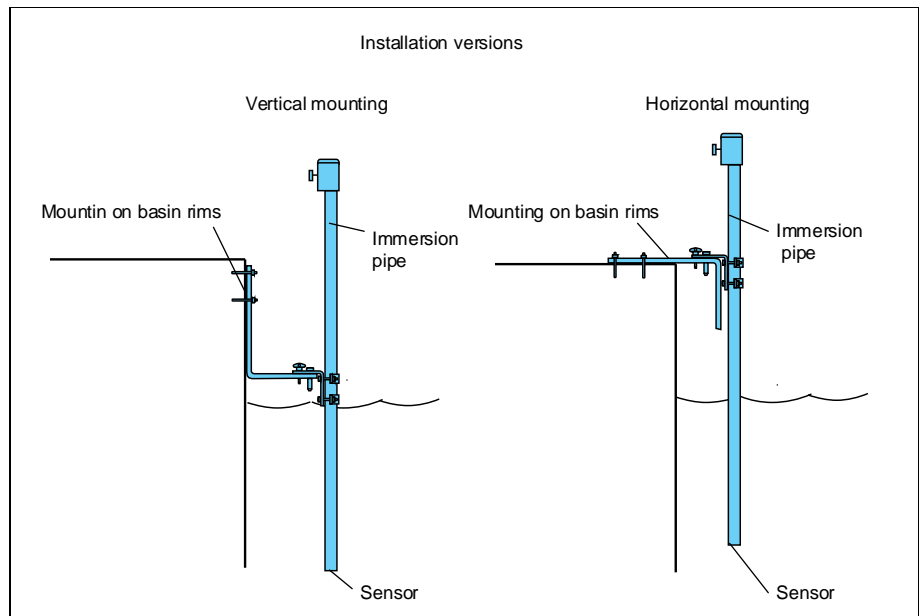
Round post installation
of weather protection
cover CYY 101



Round post installation

Installation of weather protection cover CYY 101 on vertical or horizontal pipes requires 2 round post mounts (order no. 50062121). The required 2x4 mounting holes have been pre-drilled in the weather protection cover.

Installation on basin rims
CYY 106-A



The immersion pipe CYY 105 is not included in the scope of supply

Technical data

Materials

Upright post	1.4301
Filler plug	PE
Base plate	1.4301
Transverse pipe	1.4301
Immersion tube	1.4301
Star handle	1.4305 (thermoset resin)
Chain	PP
Safety shackle	PA
Optional weather protection cover CYY 101	1.4301

Dimensions

Upright post	1495 x 60 x 60 mm
Through holes	
For transverse pipe	H = 450 or 950 mm
Base plate	150 x 150 mm
Mounting holes	4 x Ø 12 mm
Hole pattern	120 x 120 mm
Transverse pipe, version CYH 101-A	1490 x Ø 35 mm
Square transverse pipe, version CYH 101-D/-E	1490 x 30 x 30 mm
Immersion tube, version CYH 101-D/-E	2000/3500 x Ø 40 mm
Chain	5000 mm
Optional weather protection cover CYY 101	H 320 x D 270 x W 300 mm

Weights

Upright post	6 kg
Transverse pipe	2 kg
Immersion tube 2 m/3.5 m	2.5 kg/4 kg
Weather protection cover	3 kg

How to order

Universal suspension assembly holder CYH 101

Version

- A Upright post 1.5 with transverse pipe and chain
- D Upright post 1.5 with transverse pipe and immersion tube 2 m
- E Upright post 1.5 with transverse pipe and immersion tube 3.5 m
- Y Special version



CYH 101-

⇐ complete order code

Weather protection cover CYY 101

Version

- A Stainless steel, 320 x 300 x 300 mm (H x W x D)



CYY 101-

⇐ complete order code

Immersion pipe CYY 105

Version

- A Length of immersion pipe 2 m
- B Length of immersion pipe 3,5 m



CYY 105-

⇐ complete order code

Basin rim installation CYY 106

Version

- A Standard stainless steel 1.4301



CYY 106-

⇐ complete order code

Supplementary documentation

Technical Information (TI)

- ☐ O₂ assembly COA 110 for oxygen sensor COS 3
- ☐ pH/redox assembly Dipsys CPA 510
- ☐ pH/redox assembly Dipsys CPA 530
- ☐ pH/redox immersion assembly CPA 610
- ☐ Conductivity assembly Smartec CLD 130-EH ...
- ☐ Turbidity sensor CUS 1

TI 035C/07/e

TI 011C/07/e

TI 018C/07/e

TI 040C/07/e

TI 001C/07/e

TI 070C/07/e

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