

Assembly for pH/Redox Measurement *DipFit W CPA 510*

Immersion assembly for installation in
DN 50 adapters, with bayonet lock-mounted
electrode holder



Areas of application

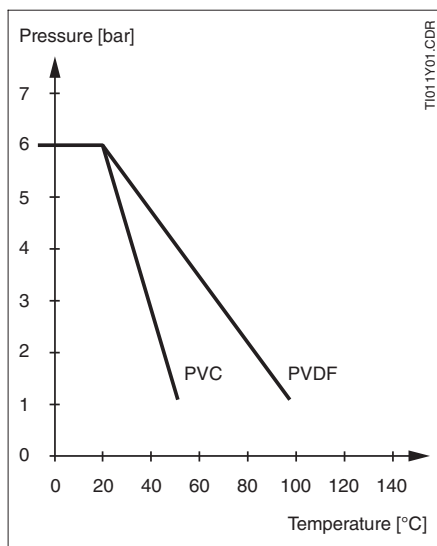
The DipFit W family of assemblies is universally suitable for use in water and waste water treatment systems. The bayonet mounting method used for the electrode holder not only allows a combined pH or redox electrode to be held; it also allows the installation of a conductivity sensor (Smartec CLD 130). Different versions are available for individual applications: Built-in or immersion assemblies (DipFit W CPA 510) and a suspended assembly (DipFit W CPA 530).

Benefits at a glance

- DipFit W CPA 510 can be used either as an immersion assembly in open containers or as a built-in assembly in tanks and closed containers.
- It is intended to hold a combined pH or redox electrode filled with a gel electrolyte.
- The assembly is available in two versions:
 - a standard version with various mounting options, and
 - a bayonet version with a DN 50 flange.
- The bayonet version is mounted with the aid of a bayonet lock and DN 50 flange. This allows simple removal and installation of the assembly tube with installed flange, not requiring any tools.
- Calibration and cleaning can be performed without having to remove the combined pH or redox electrode from the assembly.
- Electrode replacement is particularly simple because the electrode holder is installed in the immersion tube by means of another bayonet lock.

Features

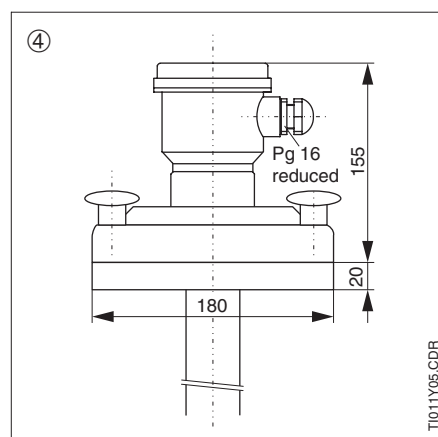
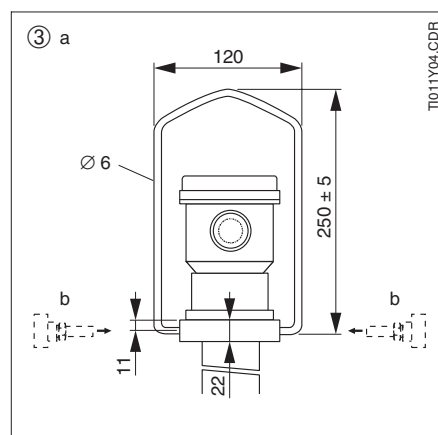
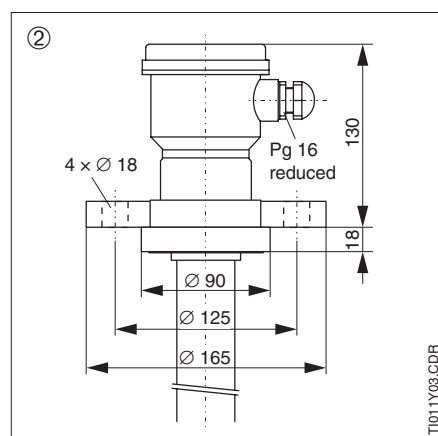
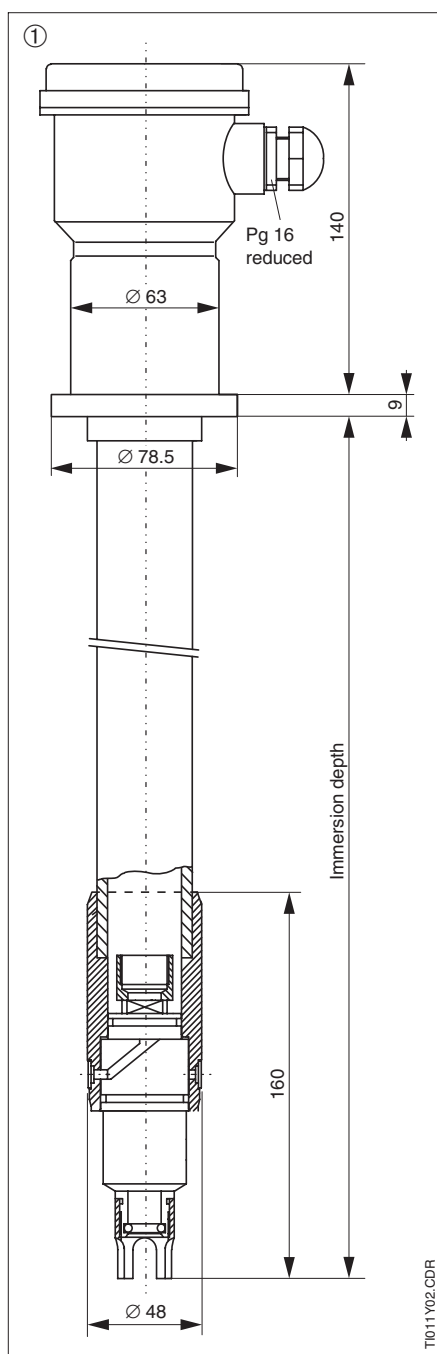
Pressure-temperature diagram



- Two versions
 - Standard version: Mounted via DN 50 flange, or oval flange with mounting plate, or stainless steel suspension bracket
 - Bayonet version: with DN 50 mounting flange
- Electrode holder attached by means of bayonet lock
- For installation of a combined pH or redox electrode filled with gel electrolyte and a length of 120 mm
- Assembly material PVC or PVDF
- Direct cable connection between the measuring electrode and the measuring transmitter via Pg screw connection
- Usable with pressures up to 6 bar (unpressurized when mounted with oval flange)

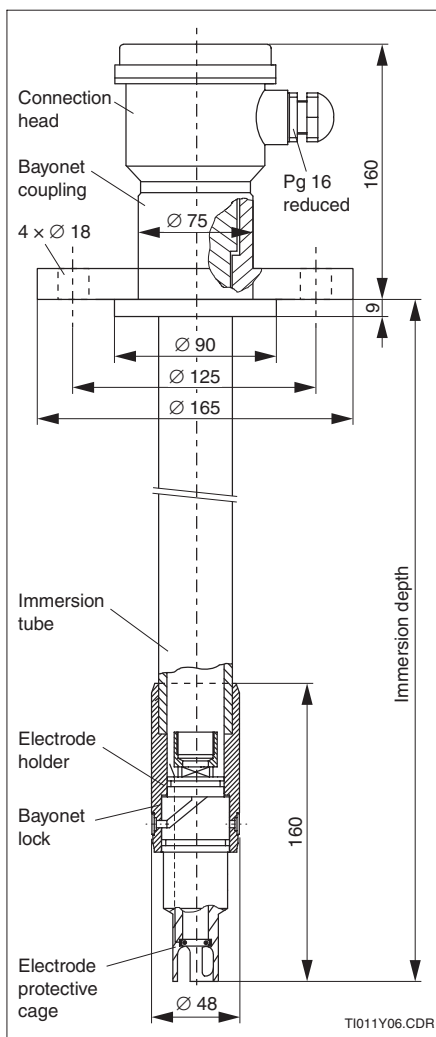
Versions and mounting options

- ① DipFit W CPA 510 without mounting
- ② Flange DN 50
- ③ a Version with mounting bracket
b Knurled banjo bolts for hanging into the pendulum frame
- ④ Oval flange with mounting plate



Bayonet version DipFit W CPA 510

DipFit W CPA 510
with bayonet lock
and DN 50 flange



The assembly is mounted using bayonet system and DN 50 flange. This allows quick and easy assembly removal without requiring any tools.

The electrode holder is also fixed to the immersion tube by means of a bayonet system. This type of attachment has been selected for all assemblies in the DipFit W family.

Accessories

❑ Electrodes

- CPS 11-1 AA2 GSA
pH combined electrode
measuring range pH 1 to 12
up to 6 bar, 0 to 80 °C
- CPS 11-2 AA2 TSA
pH combined electrode
as above, but with integrated
temperature sensor Pt 100
- CPS 11-1 BA2 GSA
pH combined electrode
measuring range pH 1 to 14
up to 6 bar, 10 to 130 °C
- CPS 12-0 PA2 GSA
redox combined electrode
with platinum surface
up to 6 bar, -15 to 130 °C

❑ Measuring cables

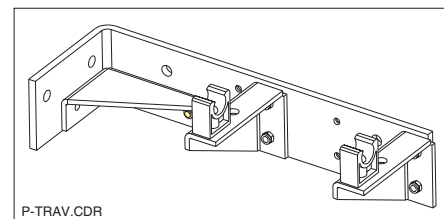
- CPK 1 for pH or redox
combined electrodes without
integrated temperature sensor
- CPK 7 for pH combined
electrodes with integrated
temperature sensor Pt 100

❑ Dummy plug for bayonet version

- of PVC
order no. 50044654
- of PVDF
order no. 50044655

❑ Mounting frame for mounting on basin walls order no. 50066561

❑ Pendulum frame for pendulum mounting of assembly CPA 510-xx15 order no. 50080196



Pendulum frame

Technical data

Attachment

CPA 510-xxx1	DN 50 flange
CPA 510-xxx2	union nut and DN 50 flange
CPA 510-xxx3	oval flange and mounting plate
CPA 510-xxx4	bayonet system and DN 50 flange
CPA 510-xx15	suspension bracket

Materials in contact with the medium

Immersion tube	PVC, PVDF
Electrode holder	PPS
Flange	PVC, UP-GF
O-rings	EPDM, Viton
Bayonet pin	titanium

Operating pressure and temperature

PVC version	6 bar at 20 °C, 0 bar at 50 °C
– with oval flange and mounting plate	unpressurized up to 50 °C
PVDF version	6 bar at 20 °C, 0 bar at 115 °C
– with oval flange and mounting plate	unpressurized up to 115 °C

Immersion depth

Standard	1000 mm
Other immersion depths	500 to 3000 mm
Required mounting cross section	DN 50
Weight	2.3 kg

Electrodes

Electrode type	Orbisint CPS 11/12, Orbitex CPS 21/22
Installation	via Pg 13.5 thread
Shaft length	120 mm
Shaft diameter	12 mm

How to order

Immersion assembly DipFit W CPA 510				
Assembly length				
0	1000 mm			
1	500 ... 3000 mm (please specify)			
9	Special version			
O-ring / assembly material				
11	EPDM / PVC			
12	EPDM / PVDF			
21	Viton / PVC			
22	Viton / PVDF			
99	Special version			
Mounting method				
0	without mounting			
1	DN 50 flange			
2	Union nut and DN 50 flange			
3	Oval flange and mounting plate			
4	Bayonet version with DN 50 flange			
5	Suspension bracket; material: stainless steel 1.4571 (PVC version only)			
9	Special version			
CPA 510-				complete order code



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