



## ARD 50 Immersion Fitting

**Modular Fitting with an Extraordinary Range of Functions for a Single Sensor**

The fitting is used for measuring in tanks, basins and channels. For maximum flexibility, it offers numerous functions that can be freely combined. High-quality PP-H or PVDF makes it very sturdy. The special design facilitates sensor replacement.

### Applications

- PP-H: Water, wastewater, industrial water
- PVDF: Chemical and petrochemical industry, power plants, electroplating, ore processing

Catenary suspension

Ambient side with cable gland

Plastic tube with special sleeve geometry  
25 ... 250 cm long

Sensor adapter

### Facts and Features

- High variability — adaptable to virtually every process
- Safe functioning, easy maintenance thanks to a special and unique design
- Easy removal/installation of the sensor adapter with just ½ turn of a coupling nut (manual).
- Removal of the sensor adapter through the top or from the bottom of the immersion pipe.
- No cable twisting during sensor installation
- Sensor adapter: PG 13.5 / SE 655, SE 656 (G ¾") / ¾" NPT
- Rinse function for cleaning the sensor without opening or dismantling the fitting (PG 13,5, internal supply of rinse medium incl. check valve)
- Immersion depths: 25 – 250 cm
- Materials: PP-H, PVDF
- High pressure and temperature resistance
- Wetting cup
- Process connections: flange DN 50 – DN 100 or ANSI 2" – 4", optionally with sliding flange bushing, wall holder, catenary suspension (also as submersible version)
- Cable glands: EPDM cap with cable support sleeves and strain relief, submersible cable glands
- Stainless steel bracket for strain relief of the sensor cable

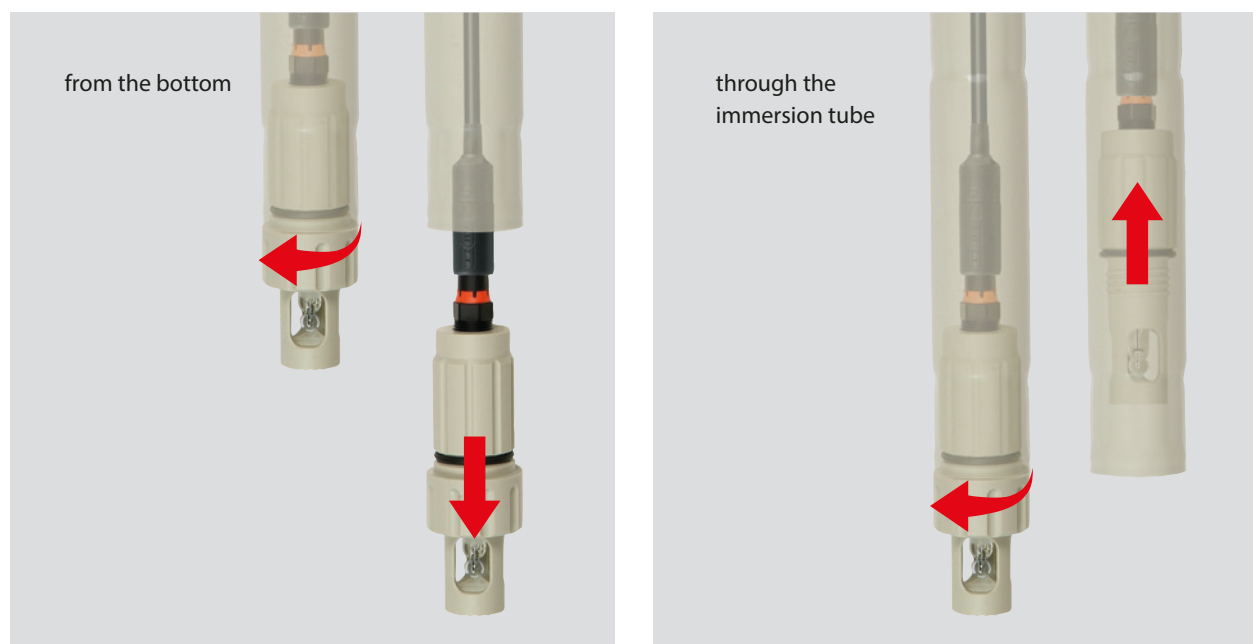


# ARD 50 Immersion Fitting

## Specifications









Sensors	Ø12 mm, length 120 mm, thread PG 13.5, SE 655 / SE 656, thread ¾" NPT	
Diameter	50 mm	
Pressure/Temperature	See diagram	
Process adaptations	Loose flange EN 1092-1	DN50 / DN65 / DN80 / DN100
	Loose flange ANSI B 16.5/150 lbs	2" / 2½" / 3" / 4"
	Wall holder	stainless steel 1.4571
	Catenary suspension	also as submersible version
Process-wetted materials	Fitting	PP-H/PVDF
	Sealing material	EPDM / FKM / FFKM / FFKM Perlast G75B
	Rinsing (option)	PEEK, Hastelloy
	Catenary suspension	Nylon rope
Sensor protection in the process	Probe guard integrated in the sensor adapter for sensors with 12 mm dia., 120 mm length, PG 13.5 thread	
Immersion depth	25, 50, 100, 150, 200, 250 cm (special lengths available from 25 cm)	
Inlet for rinsing (option)	Hose	NW 6 mm
	Material	EPDM
	Check valve in the sensor adapter	
Transport and storage temperature	14 ... 158 °F (-10 ... 70 °C)	
Ambient temperature	23 ... 131 °F (-5 ... 55 °C)	
Protection according to EN 60529	Ambient side open	IP10
	Ambient side rubber cap	IP65
	Ambient side cable gland	IP68 (immersion depth: 10 m permanently) and IP66

## Removing the Sensor Adapter for Replacing the Sensor



Modular System

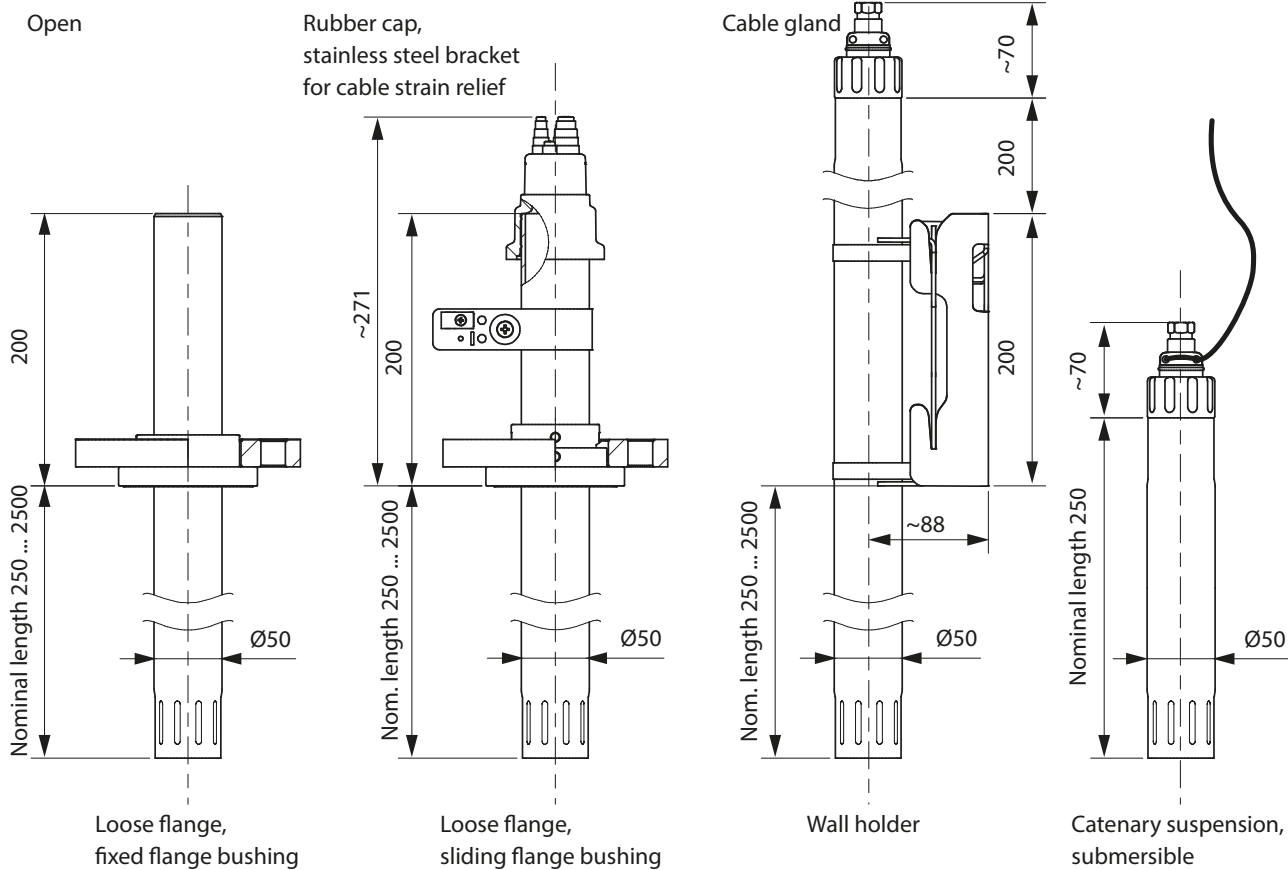
This immersion fitting comes in 6 different nominal lengths (special lengths available).  
The modular system is completed by various cable glands, process connections and sensor adapters.

Ambient Side				
	Open, with stainless steel bracket for strain relief of the sensor cable	Rubber cap with support sleeves for hose and cable	Cable gland	Cable gland with catenary suspension
Process Adaptations				
	Without	Wall holder	Flange, loose	Without
Sensor Adapters				
	PG 13.5 with wetting cup	PG 13.5 with rinsing equipment	SE 655 / SE 656	PG 13.5

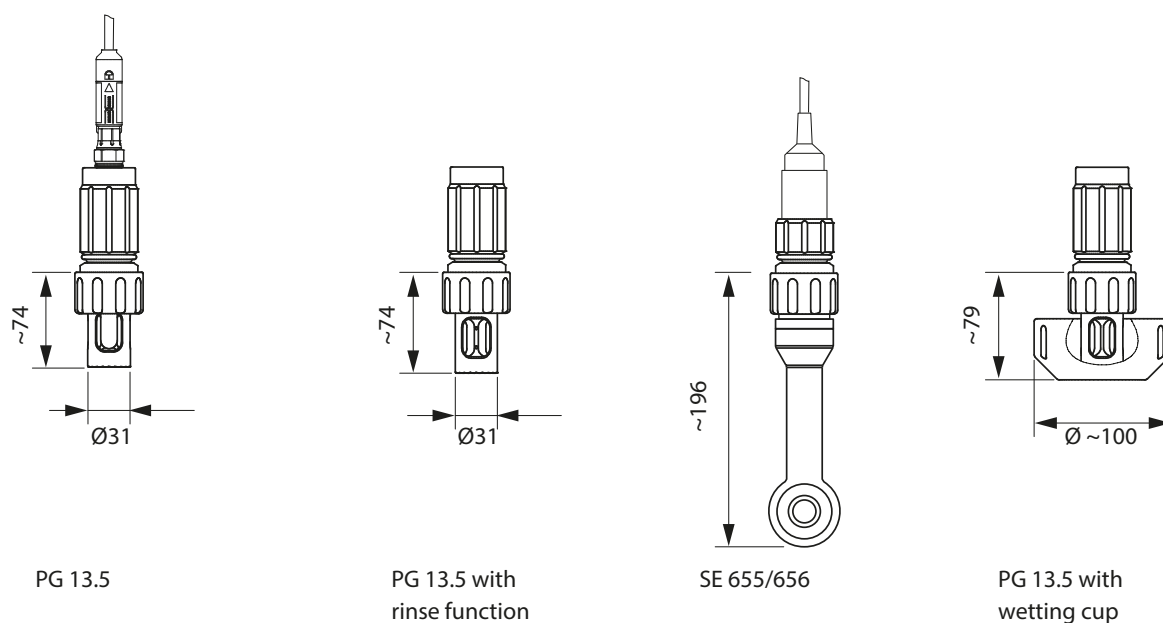
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## Dimension Drawings

### Base Body



### Sensor Adapter



All dimensions in mm

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Pressure/Temperature Diagram

