

# DCDYNAMIC **Process Equipment**

**Retractable Housing Pneumatic SmartDip 405M-Ex** 



## **SmartDip 405M-Extended: Pneumatically Retractable Electrode Housing**

SmartDip 405M – Extended version is a retractable electrode housing with pneumatically operated drive Unit. This version comes with extended immersion length up to 209mm. This metal body model can be implemented in harsh chemical applications through flange mounting on reactor's side nozzle for in-situ measurement. The drive unit inserts the measurement sensor into the reaction mass and retracts back to the flushing chamber for cleaning and storage in stand by condition.

## **About Product:**

- Available in various material such as SS 316L, SS 904L, Titanium, Hastelloy C22 for wetted parts.
- Available in various sealing material such as EPDM, VITON, KALREZ.
- Integrated position feedback (Optional)
- Flange size ANSI 2" and above. (Special flange also available)
- Stroke length 40mm

## **Unique Features:**

- Large flushing path for harsh chemical conditions such as slurry and suspended solids.
- Protective mounting sleeve for 425mm long glass pH electrodes.
- Short 40mm stroke length for less wear & tear.
- Scrap & Seal assembly for durability of the sealing material.

## **Benefits:**

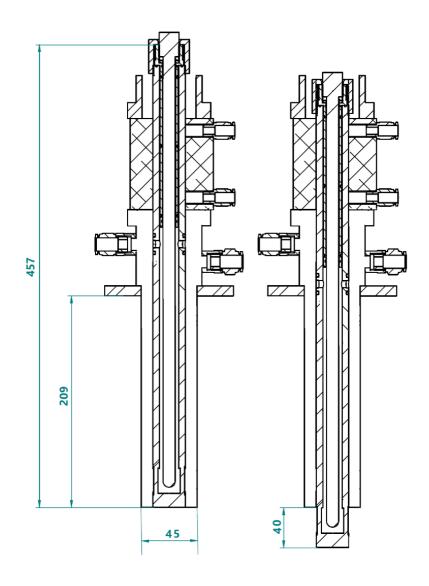
- Quick and easy Sensor cleaning, calibration or maintenance without process interruption.
- Improved accuracy, reliability and life of process sensors such as pH Electrodes.
- Ease of operation and maintenance of measurement point.
- Plug & Use Modular design for ease of installation and maintenance.
- Pneumatic assembly for remote operation
- Usable in hazardous areas and awkward positions.
- Can be fully automated with SmartControl Auto control panel.
- Usable in hazardous areas and awkward positions.





## **Specification Sheet:**

Model	405M-Ex		
Pressure	0 to 10 Bar		
Process Temperature	-10 to 140 °C		
Immersion Length	209 mm		
O-ring posision	NA		
pH/DO Sensor Specs	425mm ø12mm PG13.5		
Wetted Material	SS316L, SS904L, C22 Hastelloy, Titanium		
Seals	EPDM, FPM (Viton), FFKM (Kalrez)		
<b>Process Connection</b>	Flange ANSI 2" and Above		
Flushing Port	G1/4" Female		
Surface Finish	Ra Value < 0.3		
Operating Air Pressure	4 to 6 Bar		
Limit Switch	Pneumatic/Reed Switch		





## **Application:**

- Harsh Chemical
- Specialty Chemicals
- Pharmaceutical/API Manufacturing
- Effluent Treatment
- Pulp & Paper Industry
- Power Plant
- Battery Recycling

## **Ordering Code:**

SmartDip 405M	_Code	MOC of Wetted Parts			
SmartDip 405M-Ex					
	1	316L			
	2	904L			
	3	C22			
	4	Titanium			
		_code	MOC of Seals		
		EP	EPDM		
		VI	VITON (FPM)		
		FK	FFKM (Kalrez)		
			_code	Process Connection	
			F2	Flange ANSI 2" #150	
			F3	Flange ANSI 3" #150	
				_code	Position Feedback
				RD	Megnetic Reed Switch
				PN	Pneumatic
				NA	Not Required



## **Some unique features of SmartDip Retractable Housings:**





## Also check out our range of Retractable Housings for Liquid Analytics...



### SmartDip 405M

SmartDip 405M is a retractable electrode housing with pneumatically operated drive Unit. This metal body model can be implemented in harsh chemical applications through flan...



#### SmartDip 220M

SmartDip 220M is a compact refractable electrode housing with manual drive Unit. This metal body model can be implemented in different chemical applications including ferment...



#### SmartDip 405P

SmartDip 405P is a retractable electrode housing with pneumatically operated drive Unit. This plastic body model can be implemented in harsh chemical applications through flan...



#### SmartDip 250M

SmartDip 250M is a manually operated Retractable electrode housing with long immersion lengths and ball valve for isolation. It can fit 120mm long Sensor.



#### SmartDip 420M

SmartDip 420M is a compact retractable electrode housing with pneumatically operated drive Unit. This metal body model can be implemented in different chemical applicatio...



#### SmartDip 240M

SmartDip 240M is a compact retractable electrode housing. This version can fit 120mm long sensor. It comes with 1" NPT, Triclover connection.



#### SmartDip 450M

SmartDip 450M is a pneumatically operated retractable electrode housing with long immersion length and isolation ball valve.
This unique model can fit 120mm long sensor.



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For more information visit: <a href="https://www.dynamic-p-e.com/">https://www.dynamic-p-e.com/</a>







Subject to technical changes