

# ROSEMOUNT ANALYTICAL pH SENSORS

A pH sensor for EVERY job.

## General Purpose sensors for clean, non-coating liquids

Chemical • Wastewater • Pulp & Paper • Refining • Metals • Water Treatment

1

**3900 Family:** Designed for general use in most industries, especially water and wastewater applications



2

**389 & 385+ Families:** Designed for general use in processes containing sugar, ammonia, chloride, or sulfides.



## Tough Process sensors for dirty liquids, aggressive chemicals, and/or high temperatures

Chemical Processing • Chemical Refining • Oil Refining • Pulp & Paper • Metals & Mining • Water & Wastewater

3

**TUpH Family:** Designed for dirty applications and processes with viscous coatings



4

**PERpH-X Family:** Designed for high temperature and pressure processes for optimal performance



## General Purpose sensors for clean, non-coating liquids

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5

For use in low conductivity liquids of less than 100  $\mu\text{S}/\text{cm}$



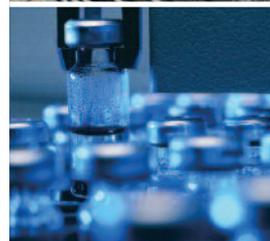
6

Special Use – Hydrofluoric Acid Processes, Non-glass & extra tough requirements



7

For use where SIP or CIP solutions are used; special design for insertion into sanitary style fittings



**ROSEMOUNT**<sup>®</sup>  
Analytical

For more information:  
800-854-8257  
[www.emersonprocess.com](http://www.emersonprocess.com)

  
**EMERSON**<sup>™</sup>  
Process Management

# ROSEMOUNT ANALYTICAL pH SENSOR GUIDE

Application Type	Sensor	Sensor Mounting Choices						Specifications			
		Pipe Tee	Tank	Submersible	Retraction	Panel	Sanitary Flange	Maximum Temperature F / C	Maximum Pressure psi / Kpa	Process Connection	Body Materials
General Purpose	1 3900	✗	✗	✗				212 / 100	100 / 790	3/4 and 1 inch	Ryton, SST
	2 389 and 385+	✗	✗	✗	✗			212 / 100	100 / 790	1 inch adjustable	Tefzel, Titanium
Tough Processes	3 TupH Family: 396, 396P, and 396R	✗	✗	✗	✗			212 / 100	150 / 1135	1 inch fixed or adjustable	Polypropylene, Titanium or SST
		TupH Family: 398, & 398R	✗	✗	✗	✗			212 / 100	250 / 1825	1 inch fixed or adjustable
	4 PERpH-X Family: 3300HT, 3400HT, & 3500	✗	✗	✗	✗			311 / 155	400 / 2859	1 inch fixed or adjustable	Ryton, Titanium
Special Processes	5 3200HP for low conductivity liquids					✗		160 / 70	10	1/4 inch FPT	Polycarbonate
	6	372	✗	✗	✗			212 / 100	135 / 1035	3/4 and 1 inch	Ultem, Kynar
		TF396	✗	✗	✗		✗	212 / 100	100 / 790	1 inch or Tri-Clamp	Polypropylene, Titanium, Silicon
		RB 546 / RB 547	✗	✗	✗	✗		266 / 130	150 / 1035	3/4 or 1 inch	Kynar, Titanium
	7 Hx338 and 3800		✗				✗	284 / 140	72 / 600	PG 13.5	Glass

## Examples of mounting configurations



Retractable sensors with adjustable insertion depth.



Sensor with Tri-clamp fitting



Pipe Tee Mounting



Sensor with union fitting for submersible connection