

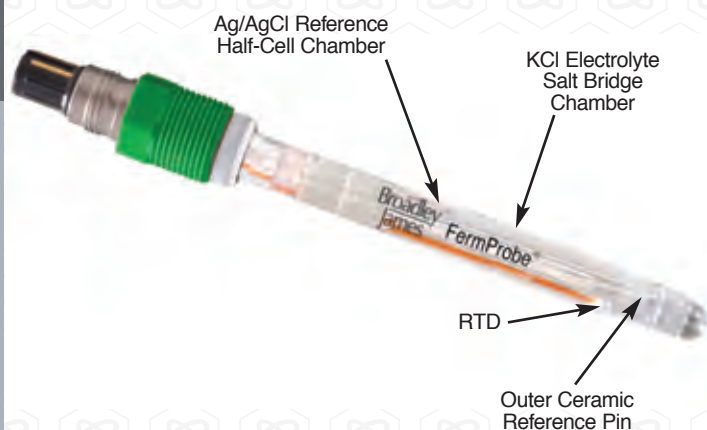
Broadley James®

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Manufacturers of Sensors, Bioreactors and Process Control Automation



F-285-B***-**-VP FermProbe® pH Electrode

- Accurate and Precise Measurements
- Superior Stability Post-Sterilization
- Improved Noise Rejection
- FDA, USP Compliant

Description:

The Model F285 pH FermProbe® is a sealed, gel-filled, sterilizable, autoclavable design with a built-in temperature element. This allows for the automatic compensation of Nernstian temperature effects in processes with wide pH ranges and significant temperature shifts.

The VarioPin connector allows for a multiple connection; both pH signal and temperature signal in the same wiring harness. The temperature element is either a PT100 or PT1000 Platinum Resistance Device, which are compatible with the majority of commercially available instruments. The unique construction methods used by Broadley-James allow this electrode to operate under pressures of up to 10bar (150psig) and temperature up to 135°C.

Features:

- Integrated RTD temperature element for temperature compensation.
- Double-Junction Silver/Silver Chloride reference element for the ultimate in stability and resistance to contamination.
- Specifically designed for multiple SIP, CIP, or Autoclave cycles. Withstands exposure to harsh CIP solutions.
- Metric threaded cap is compatible with a wide range of bioprocess electrode housings.
- Rugged, low-impedance pH bulb provides fast and precise pH measurements even after prolonged steam exposure.

Specifications:

pH Range:	0-14 pH
Temperature Range:	-5-135°C (steam sterilizable) *
Pressure:	150 psig maximum *
Reference:	Double junction, Ag/AgCl
Internal Electrolyte Gel:	Potassium Chloride 1.0 M, Glycerine thickening agent, USP Grade
Cap:	VarioPin Metric Pg13.5
Connector:	VP Style Disconnect
Wetted Materials:	Glass outer body, glass bulb, porous ceramic liquid junction, and internal electrolyte gel
Mounting:	Metric threaded cap fits into a wide range of bioprocess electrode housings
Bulb Glass:	Special Low-Drift Formula

* Pressure and temperature ratings with FermProbe® installed in a Broadley-James housing

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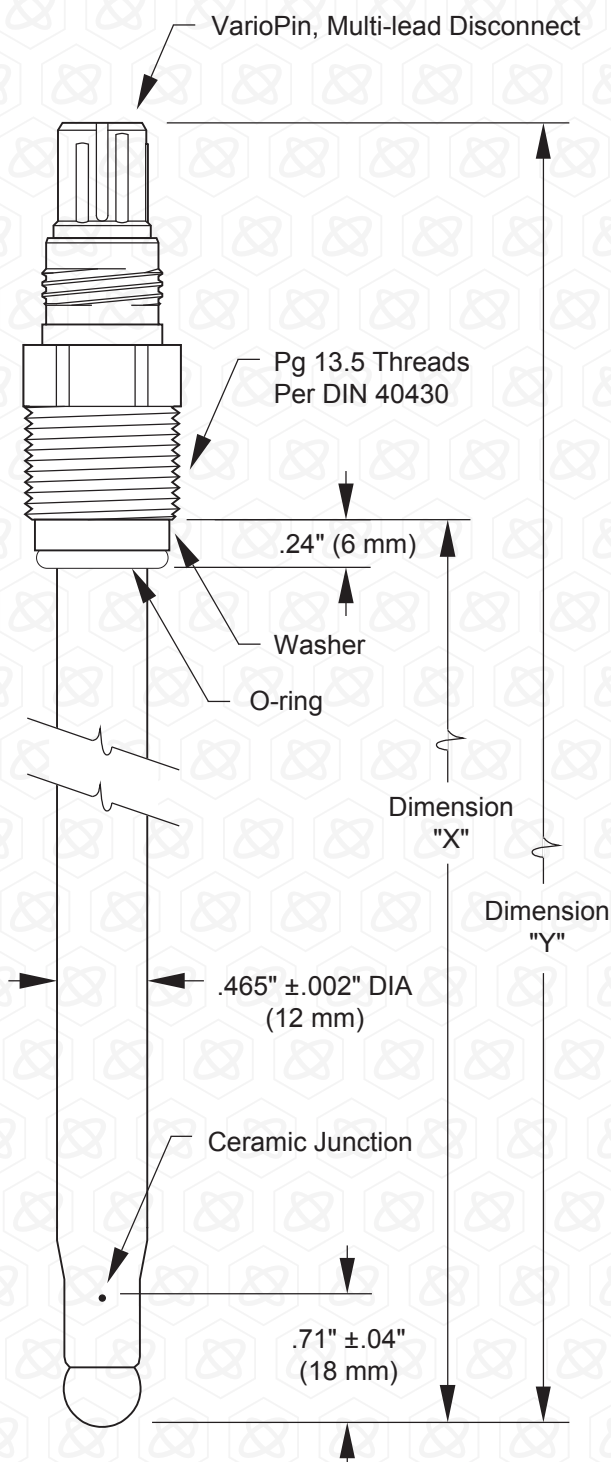
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Model F285 pH FermProbe®

Dimensional Tolerances Table

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DIMENSION TOLERANCES TABLE

PART NO.	DIM "X" ("B" LENGTH) ±.06" (1.5 mm)	DIM "Y" ±.08" (2 mm)
F-285-B120-**-VP	4.72" (120 mm)	6.78" (172 mm)
F-285-B200-**-VP	7.87" (200 mm)	9.93" (252 mm)
F-285-B225-**-VP	8.86" (225 mm)	10.92" (277 mm)
F-285-B325-**-VP	12.80" (325 mm)	14.86" (377 mm)

[**] Insert "01" for PT100 Temperature Compensator
Insert "1K" for PT1000 Temperature Compensator