

## Sensor Description

The Model F-635 FermProbe® pH sensor is steam sterilizable and autoclavable for use in bioprocess applications. The sensor can be used as follows:

- Steam sterilized in-situ in steel bioreactors and fermentation tanks with 25 mm entry ports.
- Autoclaved with bellows assemblies for aseptic insertion into single-use bioprocess containers (BPCs).
- Autoclaved with benchtop vessels. Sensor lengths available for vessel sizes from 1 liter to 20 liters.

### Design features include:

- Low impedance HT3 glass bulb with low sodium ion error.
- USP grade cellulosic thickener used for reference gel.



<b>Model</b>	F-635
<b>Short Description</b>	FermProbe® pH Sensor with PG 13.5 threaded cap and S8 Connector
<b>Part Number</b>	See table below for full part number of each of the 4 available lengths

## Sensor Specifications

Measurement Range	0–14 pH
Operational Temp. Range	-5°–135° C [23°–275° F]
Operational Pressure Range	0-7750 mmHg [0-150 psig]
Storage Temperature	5°–50° C [41°–122° F]
Shelf Life	12 months
Sensor Connector	S8, Coaxially Shielded
Sensor Connector Cable	AX-1000-HP-XXXX series

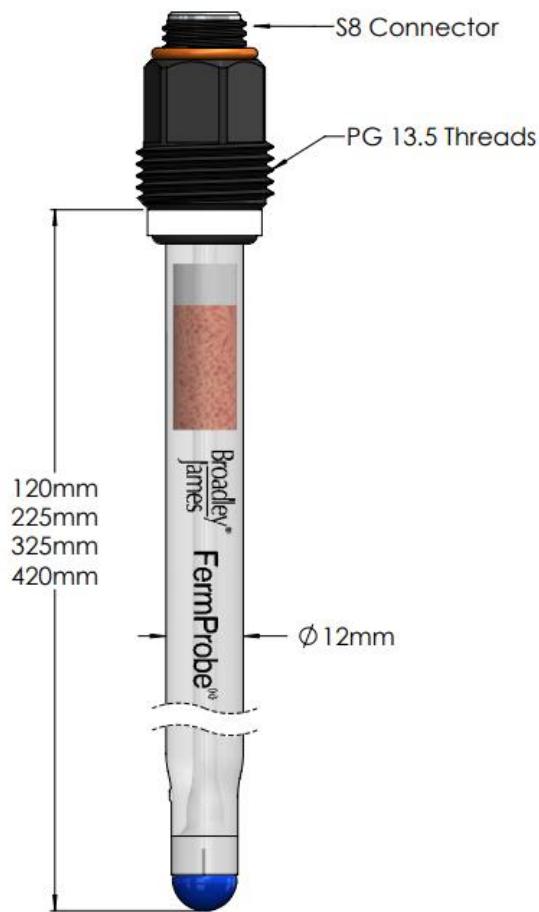
F-635 FermProbe® pH Sensor  
with S8 Connector, PG 13.5 Threaded Cap  
(Shown here with 12 mm OD x 120 mm Length)

Model F-635 Sensor Lengths			
Part Number	Insertion Length ± (3 mm)	RTD	Conn
F-635-B120-DH	120 mm	N/A	S8
F-635-B225-DH	225 mm	N/A	S8
F-635-B325-DH	325 mm	N/A	S8
F-635-B420-DH	420 mm	N/A	S8

## Wetted Materials

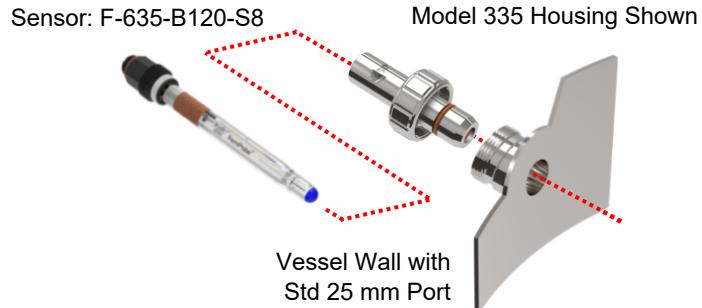
O-ring	FDA Compliant Silicone
pH Glass Electrode	Lead-free Glass
Ceramic Junction	Alumina Silicate

## Model F-635 Sensor Dimensions

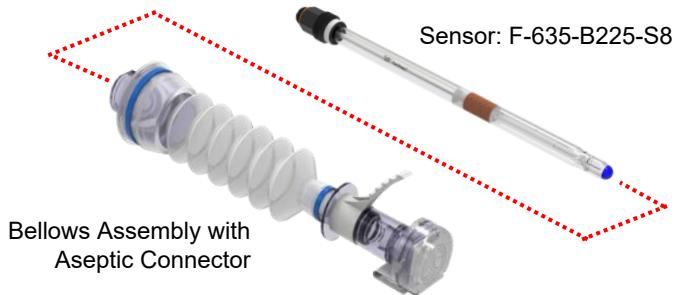


Length	Typical Application
120 mm	Side port insertion into stainless steel bioreactors and fermentation tanks
225 mm	Inserted into BPC by means of bellows insertion assembly.
	Length suitable for 1 to 5 Liter benchtop vessels
325 mm	Length suitable for 7 and 15 liter benchtop vessels
420 mm	Length suitable for 20 liter benchtop vessels

## Steam Sterilizable In-Situ in Steel Bioreactors and Fermentation Tanks with 25 mm Entry Ports



## Autoclaved with Bellows Assemblies for Aseptic Insertion into Single-Use Bioprocess Containers (BPCs)

Autoclaved with Benchtop Vessels.  
Sensor Lengths Available for Vessel Sizes  
from 1 Liters to 20 Liters

The contents of this publication are presented for information purposes only, and while every effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding products or services described herein or in their use or applicability. All sales are governed by our terms and conditions, which are available on request. We reserve the right to modify or improve the design or specification of such products at any time.