

## Sensor Description

The Model F-615 FermProbe® pH sensor is steam sterilizable and designed specifically for insertion into the 25 mm side ports of large stainless steel bioreactors or fermentation tanks.

- Rugged T-Pull® Handle with 3/4-20 threaded retainer nut to secure sensor into a 25 mm sensor housing.
- Sensor housings available for both Mettler and Sartorius style 25 mm side ports.
- Housings available in both guarded and unguarded styles, and in a selection of sensor lengths.

### Design features include:

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



F-615 FermProbe® pH Sensor  
with T-Pull® and S8 Connector  
(Shown here with 12 mm OD x 130 mm Length)

<b>Model</b>	F-615
<b>Short Description</b>	FermProbe® pH Sensor with T-Pull® Handle and S8 Connector
<b>Part Number</b>	See table below for full part number of each of the 3 available lengths

## Sensor Specifications

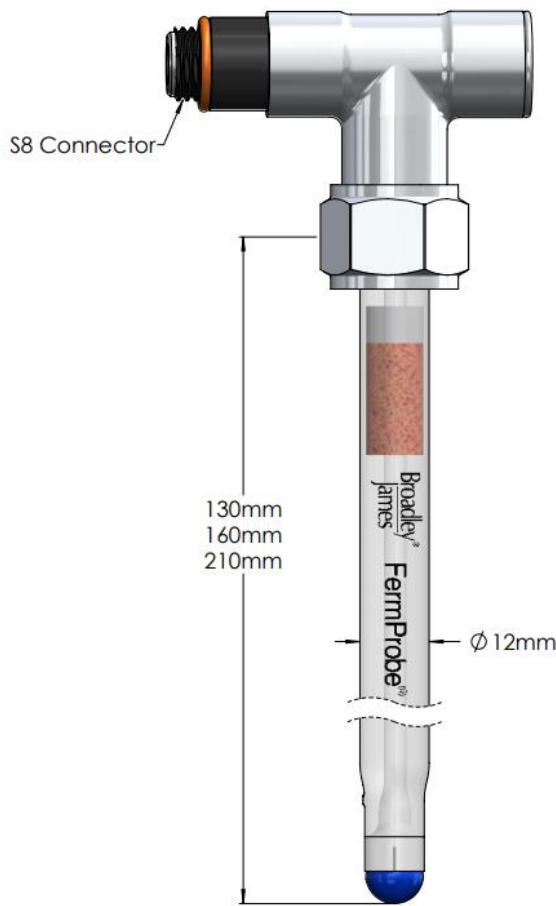
Measurement Range	0–14 pH
Operational Temp. Range	-5°–135° C [23°–275° F]
Operational Pressure Range	0-7750 mmHg [0-150 psig]
Storage Temperature	5°–50° C [41°–122° F]
Shelf Life	12 months
Sensor Connector	S8, Coaxially Shielded
Sensor Connector Cable	AX-1000-HP-XXXX series

Model F-615 Sensor Lengths			
Part Number	Insertion Length ± (3 mm)	RTD	Conn
F-615-B130-DH	130 mm	N/A	S8
F-615-B160-DH	160 mm	N/A	S8
F-615-B210-DH	210 mm	N/A	S8

## Wetted Materials

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

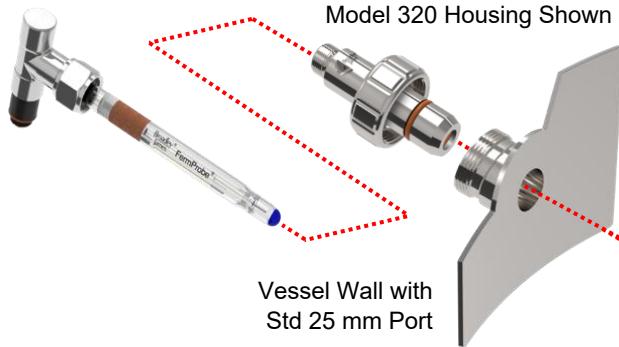
## Model F-615 Sensor Dimensions



Sensor Length	Corresponding 25 mm Sensor Housing
130 mm	Unguarded Housing: 320-61-H070 Guarded Housing: 330-61-H070
160 mm	Unguarded Housing: 320-61-H100 Guarded Housing: 330-61-H100
210 mm	Unguarded Housing: 320-61-H150 Guarded Housing: 330-61-H150

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

## Model F-615 pH FermProbe

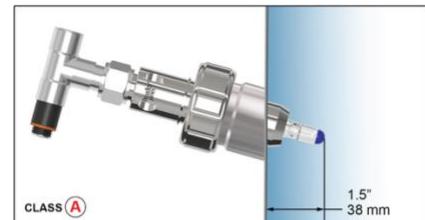


## Corresponding Vessel Insertion Depths

Sensor: F-615-B130-DH

Housing: 320-61-H070

Insertion Depth: 1.5" (38 mm)



Sensor: F-615-B160-DH

Housing: 320-61-H100

Insertion Depth: 2.6" (66 mm)



Sensor: F-615-B210-DH

Housing: 320-61-H150

Insertion Depth: 4.5" (114 mm)



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