

# EasyFerm Plus family



Specifications	
Measuring range	0 to 14 pH
Process temperature	0 to 140 °C (Arc: analog 0 to 110 °C, digital 0 to 140 °C)
Pressure range (relative to ambient)	0 to 6 bar
Hygienic aspects	Autoclavable, SIP, CIP
pH glass	HB, PHI
Electrolyte	Phermlyte
Reference system	Everef-F
Diaphragm	HP Coatramic
O-ring	EPDM

For more specifications see [www.hamiltoncompany.com](http://www.hamiltoncompany.com)

The EasyFerm Plus family of pH sensors is designed to withstand demanding applications in the Pharmaceutical and Chemical industries. All family members have the same reference electrolyte Phermlyte, the same type of diaphragm HP Coatramic but different pH glasses. The standard EasyFerm Plus, with its PHI glass, is directed at the BioPharm and Pharmaceutical industries because the glass has an excellent chemical robustness and provides best results in applications where sterilization either in an autoclave or an SIP is performed frequently. The new versions with the HB glass show a very fast recovery after CIP and SIP cycles leading to a shortened set-up time.

The LEVP (LE = Liquid Earth) versions have a stabilized sensor signal and an extended sensor diagnosis.



“Did you know... that with a pre-pressurized reference system the life time of a sensor is extended?”

- Benefits**
- ▶ Pre-pressurized reference electrolyte ensures a clog-free diaphragm
  - ▶ Almost drift-free measurement
  - ▶ Stable measurement signals after steam sterilization, autoclavation and CIP cleanings

- Typical applications**
- ▶ Bioreactors
  - ▶ Industrial processes
  - ▶ Downstream processes



How to choose the sensor	New sensor	pH glass	Electrolyte	Predecessor
CIP, SIP, autoclavations, chemical robustness	<b>EasyFerm Plus PHI</b>	PHI	Phermlyte	EasyFerm Plus
CIP, SIP, autoclavations, fast response time	<b>EasyFerm Plus HB</b>	HB	Phermlyte	

## Ordering Information

EasyFerm Plus Family Structure			
238633	Code	pH glass	
	1	PHI (recommended pH glass type)	
	2	HB	
	Code	Electrical Connector	
	1	VP	
	2	S8	
	3	Arc	
	4	Memosens	
	5	K8	
	6	LEVP (only for 120 and 225 mm length)	
	Code	a-length (mm)	
	1	120	
	2	160	
	3	200	
	4	225	
	5	325	
	6	360 (not for Arc and only PHI glass)	
	7	425	
	8	275	
	Code	Temperature sensor	
	1	Pt100 (VP, LEVP) (not applicable for Arc)	
	2	Pt1000 (VP, LEVP) (not applicable for Arc)	
	3	none (S8, K8) or given (Memosens, Arc)	
238633 -			← Order Code



Accessories

**pH buffers** see page 100

**Cables** see page 108

**Housings** see page 126