



## PendoTECH® Process Development pH Probe and Flow Cell

The PendoTECH Process Development pH Probe is ideal for measuring pH in-line with liquid moving through the flow cell. It may be re-used, however, in applications where cross contamination is desired to be avoided, it can be easily replaced with a new one. The probe must be calibrated before use, then inserted into the flow cell and hand tightened. The flow cell is available in two sizes: 1/4inch hose barb and 3/4inch sanitary flange.

The probe/flow cell combination is designed specifically and optimized for in-line measurements:

- The flat bottom sensor design does not protrude excessively into the fluid path which would interfere with flow and create back pressure
- There is no glass bulb protruding from the probe and this minimizes the potential breakage of the glass during handling
- It is ideal for processes where cleaning the probe is not practical post use
- Has a rapid response to change in pH conditions
- Can be read by all pH monitors that read electrochemical probes and the monitor handles the calibration routine



Specifications	
pH Range	pH 0 to 14 pH
Slope (pH 7 to pH 4 Buffer)	165 to 180 mV (93 to 102%) at 25°C
Offset (In pH 7 Buffer)	0 mV +/-30 mV at 25°C
Accuracy	+/-0.03 pH Unit
Response Time	+/-0.1 pH Unit in 30 seconds at 25°C
Operating Temperature Range	-5 to 80°C
Operating Pressure Range	0 to 15 psi at 25°C
Reference Junction Resistance	<50 KOHM at 25°C
pH Glass Resistance	<500 MOHM at 25°C
Glass Type	GX -V Flat
Reference Junction/Type	Large Teflon Junction
Reference Inner Solution	4M KCl/AgCl (2IES - KCl) (Top Layer)
Reference Outer Solution	1M NaCl (2IST - 1MNACL) (Bottom Layer)
Temperature Compensation (T.C.)	N/A
pH/REF Shipping Cap	Clear Vinyl Cap
Shipping Cap Solution	1M NaCl/pH 4 Buffer (CPS7)

### Ordering Information

PT-PH1	PendoTECH Process Development pH probe with BNC connector for Single Use Cell
PT-PH1-CB	Cable for PendoTECH Process Development pH probe with BNC connectors, 10ft
PT-PH1-CELL	Flow Cell for PendoTECH Process Development pH Probe, 3/4inch sanitary flange inlet/outlet, PA12 Nylon
PT-PH1-CELL-025	Flow Cell for PendoTECH Process Development pH Probe, 1/4inch hose barb inlet/outlet, PA12 Nylon

GROUP PART NUMBERS		
PT-PH1-P	PendoTECH Process Development pH probe with Single Use Cell - 3/4inch sanitary flange	1x PT-PH1 1x PT-PH1-CELL
PT-PH1-L	PendoTECH Process Development pH probe with Single Use Cell - 1/4inch hose barbs	1x PT-PH1 1x PT-PH1-CELL-025

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For warranty information see our website at <http://www.pendotech.com/warranty>