

Model 617 pH/ORP Sensor

Specifications	Model 617	Model 617-2	Model 617-3	Model 617-4(X)	Model 617-5HF	Model 617-6
Measurement Range	pH: 0 to 14	pH: 0 to 14	pH: 0 to 14	ORP: -2000 mV to 2000 mV	pH: 0 to 12	pH: 0 to 14
Sensing Element Temperature Range	0 °C to 130 °C (32 °F to 266 °F)	0 °C to 45 °C (32 °F to 113 °F)	10 °C to 105 °C (50 °F to 221 °F)	0 °C to 90 °C (32 °F to 194 °F)	0 °C to 105 °C (32 °F to 221 °F)	0 °C to 90 °C (32 °F to 194 °F)
Sensing Element	Rugged glass tip	Low temperature pH glass tip	High pH glass tip	-4 (P) = Platinum -4(G) = Gold	H.F. Resistant glass tip	Flat glass tip
Wetted Materials	Stainless Steel, PVDF, Wood or PTFE, Viton, Buna-N, Glass	Stainless Steel, PVDF, Wood or PTFE, Viton, Buna-N, Glass	Stainless Steel, PVDF, Wood or PTFE, Viton, Buna-N, Glass	Stainless Steel, PVDF, Wood or PTFE, Viton, Buna-N, Glass Platinum or Gold Glass (Platinum only)	Stainless Steel, PVDF, Wood or PTFE, Viton, Buna-N, Glass	Stainless Steel, PVDF, Wood or PTFE, Viton, Buna-N, Glass
Process Connections	1.25 in MNPT direct insertion or via ball valve	1.25 in MNPT direct insertion or via ball valve	1.25 in MNPT direct insertion or via ball valve	1.25 in MNPT direct insertion or via ball valve	1.25 in MNPT direct insertion or via ball valve	1.25 in MNPT direct insertion or via ball valve
Pressure & Temperature Limits at Insertion	2.07 MPa at 130 °C (300 psi at 221 °F)	2.07 MPa at 45 °C (300 psi at 221 °F)	2.07 MPa at 105 °C (300 psi at 221 °F)	2.07 MPa at 90 °C (300 psi at 221 °F)	2.07 MPa at 105 °C (300 psi at 221 °F)	2.07 MPa at 90 °C (300 psi at 221 °F)
Cartridge Dimensions	Length: 18.4 cm (7.25 in) Diameter: 2.5 cm (1.0 in)	Length: 18.4 cm (7.25 in) Diameter: 2.5 cm (1.0 in)	Length: 18.4 cm (7.25 in) Diameter: 2.5 cm (1.0 in)	Length: 18.4 cm (7.25 in) Diameter: 2.5 cm (1.0 in)	Length: 18.4 cm (7.25 in) Diameter: 2.5 cm (1.0 in)	Length: 18.4 cm (7.25 in) Diameter: 2.5 cm (1.0 in)
Ball Valve (BV) Electrode Dimensions	Retracted BV length: 91.4 cm (36.0 in) Inserted BV length: 71.1 cm (28.0 in)	Retracted BV length: 91.4 cm (36.0 in) Inserted BV length: 71.1 cm (28.0 in)	Retracted BV length: 91.4 cm (36.0 in) Inserted BV length: 71.1 cm (28.0 in)	Retracted BV length: 91.4 cm (36.0 in) Inserted BV length: 71.1 cm (28.0 in)	Retracted BV length: 91.4 cm (36.0 in) Inserted BV length: 71.1 cm (28.0 in)	Retracted BV length: 91.4 cm (36.0 in) Inserted BV length: 71.1 cm (28.0 in)
Maximum Electrode Insertion Depth	10.2 cm (4.0 in)	10.2 cm (4.0 in)	10.2 cm (4.0 in)	10.2 cm (4.0 in)	10.2 cm (4.0 in)	10.2 cm (4.0 in)
Sensor Cable	1.8 m (6.0 ft) with mini-BNC connector; 4 Conductor or 2 Conductor (no temperature compensation)	1.8 m (6.0 ft) with mini-BNC connector; 4 Conductor or 2 Conductor (no temperature compensation)	1.8 m (6.0 ft) with mini-BNC connector; 4 Conductor or 2 Conductor (no temperature compensation)	1.8 m (6.0 ft) with mini-BNC connector; 4 Conductor or 2 Conductor (no temperature compensation)	1.8 m (6.0 ft) with mini-BNC connector; 4 Conductor or 2 Conductor (no temperature compensation)	1.8 m (6.0 ft) with mini-BNC connector; 4 Conductor or 2 Conductor (no temperature compensation)
Preamplifier	Remote	Remote	Remote	Remote	Remote	Remote
Weight	4.5 kg (10.0 lb)	4.5 kg (10.0 lb)	4.5 kg (10.0 lb)	4.5 kg (10.0 lb)	4.5 kg (10.0 lb)	4.5 kg (10.0 lb)
Shipping Weight	5.0 kg (11.0 lb)	5.0 kg (11.0 lb)	5.0 kg (11.0 lb)	5.0 kg (11.0 lb)	5.0 kg (11.0 lb)	5.0 kg (11.0 lb)
Shipping Dimensions	81 cm × 15 cm × 15cm (32 in × 6 in × 6 in)	81 cm × 15 cm × 15cm (32 in × 6 in × 6 in)	81 cm × 15 cm × 15cm (32 in × 6 in × 6 in)	81 cm × 15 cm × 15cm (32 in × 6 in × 6 in)	81 cm × 15 cm × 15cm (32 in × 6 in × 6 in)	81 cm × 15 cm × 15cm (32 in × 6 in × 6 in)
<i>Above shipping specifications are based on a single sensor. Consult factory for quantities greater than one</i>						