

Model 642 pH/ORP Sensor

Specifications	Model 642	Model 642-2	Model 642-3	Model 642-4(X)	Model 642-5HF	Model 642-6
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)
	<i>Note: Applications over 80 °C (176 °F), require option -7, -8 & -12</i>					
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	CPVC or PVDF, Wood or PTFE, Viton, Glass	CPVC or PVDF, Wood or PTFE, Viton, Glass	CPVC or PVDF, Wood or PTFE, Viton, Glass	CPVC, Platinum or Gold, Wood or PTFE, Viton, Glass (Platinum only)	CPVC or PVDF, Wood or PTFE, Viton, Glass	CPVC or PVDF, Wood or PTFE, Viton, Glass
Process Connections	0.75 in FNPT submersion pipe mount	0.75 in FNPT submersion pipe mount	0.75 in FNPT submersion pipe mount	0.75 in FNPT submersion pipe mount	0.75 in FNPT submersion pipe mount	0.75 in FNPT submersion pipe mount
Electrode Dimensions	Length: 30.5 cm (12 in) Diameter: 3.3 cm (1.3 in)	Length: 30.5 cm (12 in) Diameter: 3.3 cm (1.3 in)	Length: 30.5 cm (12 in) Diameter: 3.3 cm (1.3 in)	Length: 30.5 cm (12 in) Diameter: 3.3 cm (1.3 in)	Length: 30.5 cm (12 in) Diameter: 3.3 cm (1.3 in)	Length: 30.5 cm (12 in) Diameter: 3.3 cm (1.3 in)
Sensor Cable	3.0 m (10.0 ft) with BNC connector; 4 Conductor or 2 Conductor (no temperature compensation)	3.0 m (10.0 ft) with BNC connector; 4 Conductor or 2 Conductor (no temperature compensation)	3.0 m (10.0 ft) with BNC connector; 4 Conductor or 2 Conductor (no temperature compensation)	3.0 m (10.0 ft) with BNC connector; 4 Conductor or 2 Conductor (no temperature compensation)	3.0 m (10.0 ft) with BNC connector; 4 Conductor or 2 Conductor (no temperature compensation)	3.0 m (10.0 ft) with BNC connector; 4 Conductor or 2 Conductor (no temperature compensation)
Preamplifier	Remote or internal	Remote or internal	Remote or internal	Remote or internal	Remote or internal	Remote or internal
Weight	0.9 kg (2.0 lb)	0.9 kg (2.0 lb)	0.9 kg (2.0 lb)	0.9 kg (2.0 lb)	0.9 kg (2.0 lb)	0.9 kg (2.0 lb)
Shipping Weight	1.8 kg (4.0 lb)	1.8 kg (4.0 lb)	1.8 kg (4.0 lb)	1.8 kg (4.0 lb)	1.8 kg (4.0 lb)	1.8 kg (4.0 lb)
Shipping Dimensions	41 cm × 15 cm × 15cm (16 in × 6 in × 6 in)	41 cm × 15 cm × 15cm (16 in × 6 in × 6 in)	41 cm × 15 cm × 15cm (16 in × 6 in × 6 in)	41 cm × 15 cm × 15cm (16 in × 6 in × 6 in)	41 cm × 15 cm × 15cm (16 in × 6 in × 6 in)	41 cm × 15 cm × 15cm (16 in × 6 in × 6 in)
	<i>Above shipping specifications are based on a single sensor. Consult factory for quantities greater than one</i>					