

Isco 4220 Submerged Probe Flow Meter - Specifications

Size (HxWxD):	17.0 x 11.5 x 10.5 in. (43 x 29 x 26.7 cm) (without power source)
Weight:	17.3 lbs (7.8 kg) (without power source)
Material	High-impact moulded polystyrene structural foam
Enclosure:	NEMA 4X (IP65)
Program Memory:	Non-volatile, programmable flash. Updateable without opening enclosure.
Display:	Backlit LCD, 2-line, 80-character (5.5 mm high x 3.2 mm wide)
Storage Temperature:	-40° to 140°F (-40° to 60°C)
Operating Temperature:	0° to 140°F (-18° to 60°C)
Power:	12 to 14V DC, 24 mA average at 12.5V DC

Typical Battery Life (printer set at 1 in/hr, 1 minute level reading interval)

934 NiCad Battery:	8 to 11 days
946 Lead-Acid Battery:	12 to 16 days
948 Lead-Acid Battery:	2 1/2 to 3 months

Submerged Probe

Dimensions:	9.5 x 0.875 in (24.1 x 2.2 cm)
Cable:	Standard range probe - 25 ft x 0.3 in (7.6 m x 0.8 cm);
Level Measurement Method:	Submerged pressure transducer mounted in the flow stream
Transducer Type:	Differential linear integrated circuit pressure transducer
Operating Temperature:	32° to 160°F (0° to 71°C)
Compensated Temperature:	32° to 100°F (0° to 38°C)
Level Measurement Range:	0.1 to 10 ft (0.03 to 3.05 m)
Maximum allowable level:	20 ft (6.1 m)

Level Measurement Accuracy (at 25°C (77°F) - Max error (±) for indicated level range)

0.1 to 5.0 ft (0.03 to 1.52 m):	±0.01 ft (±0.003 m)
0.1 to 7.0 ft (0.03 to 2.13 m):	±0.03 ft (±0.009 m)
0.1 to 10 ft (0.03 to 3.05 m):	±0.10 ft (±0.03 m)

Temperature Coefficient (Maximum error per degree of temperature change over compensated range)

0.1 to 4.0 ft (0.03 to 1.22m):	±0.005ft/°F (±0.0027m/°C)
4.0 to 10 ft (1.22 to 3.05m):	±0.007ft/°F (±0.0038m/°C)

Materials

Submerged probe:	Type 316 stainless steel, chlorinated polyvinyl chloride (CPVC)
Cable:	Polyvinyl chloride (PVC)