



BRASS & STAINLESS STEEL FLOW SENSORS 220B, 220SS

DESCRIPTION

The **220B** (brass) and **220SS** (stainless steel) flow sensors mount in a 2" NPT pipe saddle or Thredolet® and are used in general flow measuring applications in metallic or PVC pipes from 2-1/2" to 40" (6.4 to 101 cm) size. Positioning nuts on the three threaded retaining rods allow the sensor to be accurately positioned to a standard insertion depth of 1-1/2" into the pipe. When this insertion depth is maintained, and there are at least 10 upstream and 5 downstream diameters of straight uninterrupted flow, an accuracy of ±1% of actual flow rate can be obtained between flow velocities of 0.5 to 30 ft/sec. The standard 200 Series flow sensor are rated for water temperatures to 221 °F. For higher temperature requirements, see the **SDI Series**.



220B

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FLOW

SPECIFICATIONS

Connections	2" MNPT (mount in Thredolet® or tee)	Materials Of Construction	
Wiring	20' (6.1 m) Belden 9320 two-conductor shielded cable	220B	Standard construction is Admiralty brass UNS C44300 sleeve, glass-reinforced nylon impeller, Pennlon® UHMWPE bearings, tungsten carbide shaft, glass reinforced PPS housing, and ethylene propylene EPDM o-rings (other materials available special order).
Accuracy	±1% of full scale		
Repeatability	±0.3% of full scale		
Linearity	±0.2% of full scale		
Rangeability	60:1		
Velocity Range	0.5 to 30 fps (.15 to 9.0 mps)		
Media Compatibility	Hot water, chilled water, water/glycol, potable water (verify application is compatible with flow sensor materials of construction, check material compatibility resources prior to ordering)	220SS	Standard construction is 300 series stainless steel sleeve, glass-reinforced nylon impeller, Pennlon® UHMWPE bearings, tungsten carbide shaft, glass reinforced PPS housing, and ethylene propylene EPDM o-rings (other materials available special order).
Media Temperature Range	Maximum 221°F (105°C)	Dimensions	7.1"H x 3" diameter (18.1 x 7.6 cm)
Maximum Pressure	400 psig (2758 kPa) @ 100°F (37.8°C) media temperature	Weight	4.1 lb (1.9 kg)
		Approvals	CE
		Warranty	1 year

ORDERING INFORMATION

MODEL	DESCRIPTION
220B	Brass flow sensor
220SS	Stainless steel flow sensor

	RELATED PRODUCTS	PAGE
310-00	Programmable analog flow transmitter	255
UFT-1A	Universal flow transmitter, pulse and calibrated 4-20 mA output	256

	ACCESSORIES
230-FRK	Repair kit for 200 Series flow sensors (includes impeller, shaft, bearing, and O-ring)
2X2.5-3THD	2" Thredolet® for 2-1/2" and 3" pipes
2X4-6THD	2" Thredolet® for 4", 5" and 6" pipes
2X8-36THD	2" Thredolet® for 8" to 36" pipes