



## TEE MOUNTED FLOW SENSOR 250B



### DESCRIPTION

The **Badger Meter 250B Series flow sensors** consist of a removable flow sensor mounted in a cast bronze housing. They are available for 1/2" to 1-1/2" (1.3 to 3.8 cm) pipe sizes.

### FEATURES

- *Two-wire sensor*
- *Sensor electronics easily removed from tee*
- *Impeller, bearing and shaft are easily replaced in field without changing calibration*
- *Power and signal transmit on single pair of wires up to a distance of 2000 feet (610 meters)*
- *Digital signal easily interfaced with transmitters, monitors or PLCs*



250B-0.5

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FLOW

SPECIFICATIONS		
<b>Accuracy</b>	±1% of full scale	UHMWPE bearings, tungsten carbide shaft, glass reinforced PPS housing, and ethylene propylene EPDM o-rings
<b>Velocity Range</b>	0.3 to 15 fps (.09 to 4.5 mps)	
<b>Repeatability</b>	±0.7% of full scale	<b>Dimensions</b> <b>250B-0.5, -0.75</b> 4.6"H x 4.0"W x 1.6"D (11.7 x 10.2 x 4.1 cm) <b>250B-1</b> 4.8"H x 5.5"W x 2.1"D (12.2 x 14.0 x 5.3 cm) <b>250B-1.25</b> 5.0"H x 6.1"W x 2.4"D (12.7 x 15.5 x 6.1 cm) <b>250B-1.5</b> 5.2"H x 6.5"W x 2.6"D (13.2 x 16.5 x 6.6 cm)
<b>Linearity</b>	±0.7% of full scale	
<b>Rangeability</b>	60:1	<b>Weight</b> <b>250B-0.5</b> 4.6 lb (2.1 Kg) <b>250B-0.75</b> 4.8 lb (2.2 Kg) <b>250B-1</b> 6.2 lb (2.8 Kg) <b>250B-1.25</b> 6.5 lb (2.9 Kg) <b>250B-1.5</b> 7.6 lb (3.4 Kg)
<b>Connection Type</b>	1/2" FNPT to 1-1/2" FNPT	
<b>Wiring</b>	20' (6.1 m) 2-conductor 20 AWG shielded UL type PTLC wire, rated to 221°F (105°C). May be extended to 2000' maximum with similar cable	<b>Approvals</b> CE <b>Warranty</b> 1 year
<b>Media Compatibility</b>	Hot water, chilled water, water/glycol (verify application is compatible with flow sensor materials of construction, check material compatibility resources prior to ordering)	
<b>Media Temperature Range</b>	Maximum 221°F (105°C)	
<b>Maximum Pressure</b>	400 psig (2758 kPa) @ 100°F (37.8°C) media temperature	
<b>Materials Of Construction</b>	Cast bronze UNS C83600 tee, glass-reinforced nylon impeller, Pennlon®	

### ORDERING INFORMATION

MODEL	DESCRIPTION
<b>250B-0.5</b>	Brass flow sensor mounted in a 1/2" (1.3 cm) FNPT bronze pipe tee
<b>250B-0.75</b>	Brass flow sensor mounted in a 3/4" (1.9 cm) FNPT bronze pipe tee
<b>250B-1</b>	Brass flow sensor mounted in a 1" (2.5 cm) FNPT bronze pipe tee
<b>250B-1.25</b>	Brass flow sensor mounted in a 1-1/4" (3.2 cm) FNPT bronze pipe tee
<b>250B-1.5</b>	Brass flow sensor mounted in a 1-1/2" (3.8 cm) FNPT bronze pipe tee

### RELATED PRODUCTS

<b>310-00</b>	Programmable analog flow transmitter
<b>813107-1211</b>	Replacement sensor assembly for 250B, includes 20' cable
<b>UFT-1A</b>	Universal flow transmitter, pulse and calibrated 4-20 mA output