**PVC INLINE FLOW SENSORS 4000 SERIES** 

**FLOW** 



## DESCRIPTION

The Badger Meter 4000 Series flow sensors are designed to measure flow in small PVC pipes. They include a nonmagnetic flow sensor with schedule 80 PVC tail pieces (plain end pipe). They are available in 1/2" (1.3 cm), 3/4" (1.9 cm), and 1" (2.5 cm) sizes. Low flow models (410xxx and 411xxx), and models with an optional integral 4-20 mA looppowered transmitter (4xx210) are available. Programming is done using the A301-20 Programming Kit.





325

4000 Series

SPECIFICATIONS				
Analog Output	2-wire, 4-20 mA (4xx210 models)	Media Temperature Range		6
Pulse Rate	3.2 to 200 Hz, 5 ms ±25% width,	_	Maximum 140°F (60°C)	
	9-20 VDC power @ 2 mA maximum;	Maximum Pressure	350 psig (2413 kPa) @ 73°F	
	5V CMOS and LSTTL compatible		(22.8°C) media temperature	
	(4xx200 models)	Materials of Construc	tion	
Wiring			PVC fittings, PPS housing, Viton	
Pulse models	20' (6.1 m), 20 AWG three-conductor		o-ring, zirconia ceramic shaft, Tefzel	
	shielded cable		impeller, UHMWPE bearings	
4-20 mA models	3' (.91 m), 20 AWG two-conductor	Dimensions		
	shielded cable	400, 410	3.4"H x 8.8"W x 3.5"D	
Accuracy	±1% of full scale		(9.1 x 22.2 x 8.9 cm)	FLOW
Repeatability	±0.5% of full scale	401, 411	3.4"H x 10.8"W x 3.5"D	Ö
Connection Type	PVC plain end pipe		(9.1 x 26.8 x 8.9 cm)	$\leq$
Velocity Range		402	3.4"H x 13.0"W x 3.5"D	
400, 401, 402	1.0 to 20 fps (.33 to 6.0 mps)		(9.1 x 33.1 x 8.9 cm)	
410, 411	0.25 to 8.0 fps (.075 to 2.4 mps)	Weight		
Media Compatibility	Water, pure water (verify application	400, 410	.75 lb (.34 kg)	
	is compatible with flow sensor	401, 411	.85 lb (.38 kg)	
Nº.	materials of construction, check	402	.95 lb (.43 kg)	
Le l'	material compatibility resources prior	Approvals	CE	
	to ordering)	Warranty	1 year	

## **ORDERING INFORMATION**

MODEL	<b>DESCRIPTION</b> Inline flow sensor with 1/2" PVC tail pieces, pulse output Inline flow sensor with 1/2" PVC tail pieces, integral 4-20 mA		
400200-0021			
400210-0021 410200-0021 410210-0021			
	Inline low flow sensor with 1/2" PVC tail pieces, pulse output		
	Inline low flow sensor with 1/2" PVC tail pieces, integral 4-20 mA		
401200-0021	Inline flow sensor with 3/4" PVC tail pieces, pulse output		
401210-0021 411210-0021 411210-0021	Inline flow sensor with 3/4" PVC tail pieces, integral 4-20 mA		
	Inline low flow sensor with 3/4" PVC tail pieces, pulse output		
	Inline low flow sensor with 3/4" PVC tail pieces, integral 4-20 mA		
402200-0021	Inline flow sensor with 1" PVC tail pieces		
402210-0021	Inline flow sensor with 1" PVC tail pieces, integral 4-20 mA		
	RELATED PRODUCTS		
A301-20	Flow/BTU transmitter programming kit, includes cable		
UFT-1	Universal flow transmitter, pulse output only		