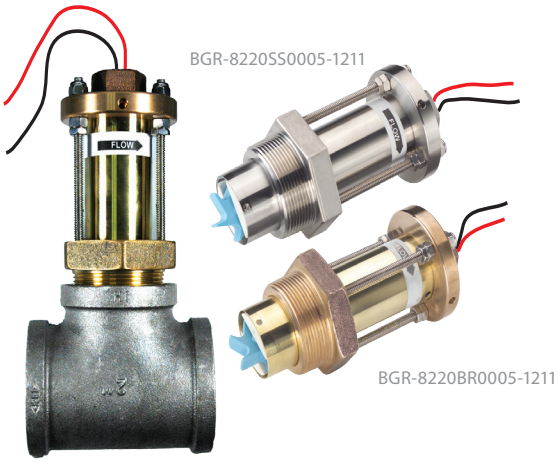
220X & 228X SERIES

For Pipe Sizes 3" to Over 40"



Insert-style liquid flow sensors with brass or stainless steel sleeves fit pipe sizes from 3" to 40" (77 to 1016 mm). These sensors can be purchased with a bronze or iron tee. Sensor output is a frequency that indicates flow rate. Used in conjunction with a compatible flow monitor or transmitter, these non-magnetic flow sensors provide an accurate reading of the rate of liquid flow, as well as total accumulated flow.

2000 ft signal travel

Signal can travel up to 2000 ft (609 m) between the sensor and the display unit without the need for amplification

Non-magnetic sensing

Six-bladed impeller design with a proprietary, non-magnetic sensing mechanism for high accuracy and repeatability. Forward-swept impeller is less prone to fouling by water-borne debris…reliable performance with minimal downtime.

Cable options

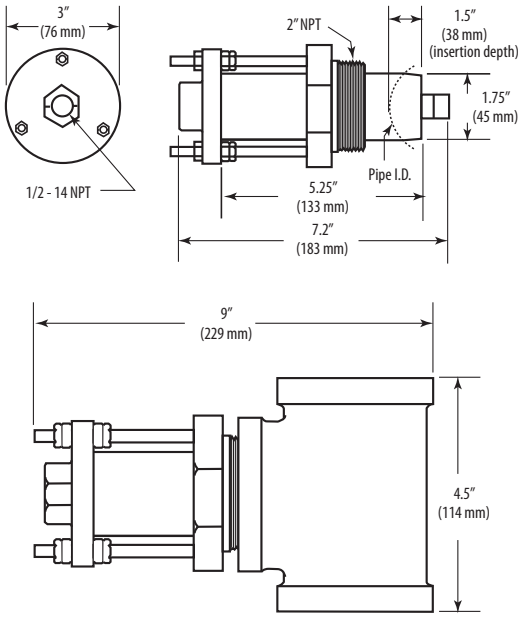
Supplied with 20 ft (6 m) of 2-conductor AWG 20 UL type PTLC cable (105 °C rated)

SPECIFICATIONS

Temperature Rating	105 °C (221 °F) continuous
Pressure Rating	At 38 °C (100 °F) Insert: 400 psi; brass tee: 200 psi; iron tee: 175 psi
Recommended Design Flow Range	0.5 to 30 ft/sec (0.15 to 9 m/sec); initial detection below 0.3 ft/sec
Wetted Materials	UHMW-PE bearing, polyamide impeller, tungsten carbide shaft, EPDM O-rings
Accuracy	1% F.S. over recommended design flow range; ±4% of reading within calibration range*
Repeatability	±0.3% of full scale over recommended design flow range*
Linearity	±0.2% of full scale over recommended design flow range*
Output Frequency	3.2 Hz to 200 Hz
Output Pulse Width	5 ms ±25%
WARRANTY	
Limited Warranty	1 year

* ≥10 upstream and ≥5 downstream straight pipe diameters, uninterrupted flow.

DIMENSIONAL DRAWINGS



ORDERING INFORMATION

VERIS PART #	MANUF. PART #	DESCRIPTION
BGR-8220BR0005-1211	8220BR0005-1211	Flow, Sensor, Insert, Brass Sleeve, 3" to 40" (77 to 1016 mm) pipe
BGR-8220SS0005-1211	8220SS0005-1211	Flow, Sensor, Insert, SS Sleeve, 3" to 40" (77 to 1016 mm) pipe
BGR-8228BR2005-1211	8228BR2005-1211	Flow, Sensor, Insert, Brass, 2" Brass Tee
BGR-8228CB2005-1211	8228CB2005-1211	Flow, Sensor, Insert, Brass, 2" Iron Tee
BGR-8228BR2505-1211	8228BR2505-1211	Flow, Sensor, Insert, Brass, 2.5" Brass Tee

250X SERIES

For Pipe Sizes ½" to 1½" NPT



BGR-8250BR0505-1211

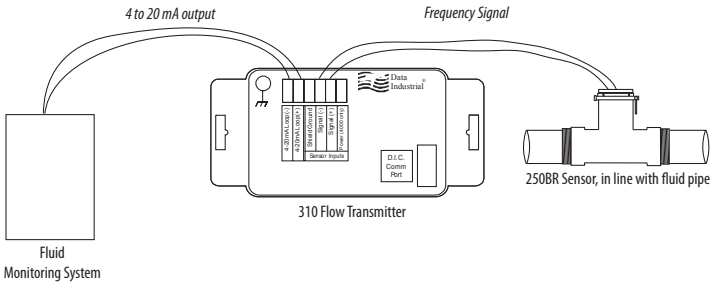
Metal tee-style liquid flow sensor with cast brass housing fits ½" to 1½" NPT. These sensors are accurate, even at low flow rates. Use in conjunction with a flow monitor or transmitter for a complete flow monitoring system.

SPECIFICATIONS

Maximum Pressure	At 38 °C (100 °F) 400 psi; at 105 °C (221 °F) 325 psi
Wetted Materials	UHMW-PE bearing, polyamide impeller, tungsten-carbide shaft, EPDM O-rings
Recommended Flow	0.3 to 15 ft/sec (0.09 to 4.5 m/sec)
Accuracy	±1.0% of rate
Repeatability	±0.7% over recommended design flow range*
Linearity	±0.7% over recommended design flow range*
Rangeability	60:1
Output Frequency	0.8 to 80 Hz
WARRANTY	
Limited Warranty	1 year

* ≥10 upstream and ≥5 downstream straight pipe diameters, uninterrupted flow.

APPLICATION EXAMPLE



2000 ft signal travel

Signal can travel up to 2000 ft (609 m) between the sensor and the display unit without the need for amplification

No amplification

Signal can travel up to 2000 ft (609 m) between the sensor and the display unit without the need for amplification

Ideal for low flow rates

Operation and repeatability even at low flow rates

Cable options

Supplied with 20 ft (6 m) of 2-conductor AWG 20 UL type PTLC cable (105 °C rated)

Non-magnetic sensing

Six-bladed impeller design with a proprietary, non-magnetic sensing mechanism for high accuracy and repeatability. Forward-swept impeller is less prone to fouling by water-borne debris…reliable performance with minimal downtime.

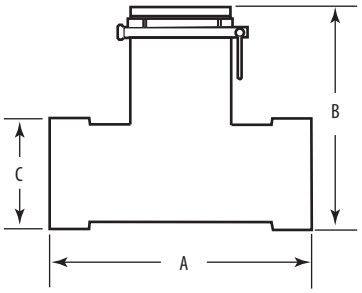
Highly durable

PPS electronics housing

APPLICATIONS

- Measuring liquid flow rates

DIMENSIONAL DRAWING



Model	A	B	C
BGR-8250BR0505-1211	4.0" (102 mm)	4.7" (120 mm)	1.7" (44 mm)
BGR-8250BR0705-1211	4.0" (102 mm)	4.7" (120 mm)	1.7" (44 mm)
BGR-8250BR1005-1211	5.5" (140 mm)	4.8" (121 mm)	2.2" (56 mm)
BGR-8250BR1205-1211	6.1" (155 mm)	5.0" (127 mm)	2.4" (61 mm)
BGR-8250BR1505-1211	6.5" (165 mm)	5.2" (132 mm)	2.7" (69 mm)

ORDERING INFORMATION

VERIS PART #	MANUF. PART #	DESCRIPTION
BGR-8250BR0505-1211	8250BR0505-1211	Flow, Sensor, 1/2" Cast Brass Tee
BGR-8250BR0705-1211	8250BR0705-1211	Flow, Sensor, 3/4" Cast Brass Tee
BGR-8250BR1005-1211	8250BR1005-1211	Flow, Sensor, 1" Cast Brass Tee
BGR-8250BR1205-1211	8250BR1205-1211	Flow, Sensor, 1-1/4" Cast Brass Tee
BGR-8250BR1505-1211	250BR1505-1211	Flow, Sensor, 1-1/2" Cast Brass Tee

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