

Level-Velocity Transmitter

for Irrigation Water in partially filled pipes and channels

Bigfoot

Submersible Transmitter

For Partially Filled Irrigation Pipes and Channels

No Moving Parts
4-20 mA Level Output
4-20 mA Velocity Output
10-26 VDC Power Input

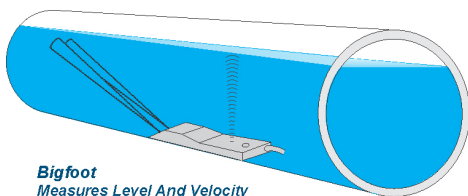


Easy to Install

Mount Bigfoot on the bottom of a pipe or channel to accurately measure and transmit both water level and velocity. This sealed, ultrasonic sensor is your solution for continuous water measurement in open channels and partially filled pipes. No calibration is required.

No Calibration Required

The Bigfoot can be powered from batteries, solar charging systems or DC power supplies. The 4-20 mA outputs can be connected to data loggers, SCADA systems or PLC measuring systems.



Bigfoot
Measures Level And Velocity

Flow can be calculated from the Bigfoot transmitter outputs by using the formula: $Flow = Area \times Velocity$, where Area is the cross-sectional area of the channel at the Level measured by the Bigfoot, and Velocity is the speed of the water. It can be mounted in irrigation pipes, channels, turn-outs, ditches, or culverts with defined dimensions.

Bigfoot is designed to provide Level and Velocity measurements in irrigation open channel applications, which typically have developed flow conditions. Consider using the Greyline AVFM for applications with turbulent surface conditions caused by high velocity and/or poorly developed flow conditions.

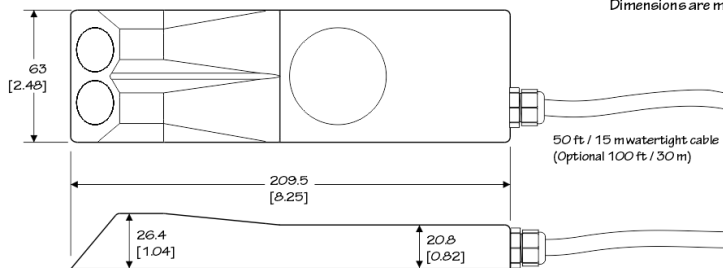
Bigfoot Level-Velocity Transmitter

General Specifications

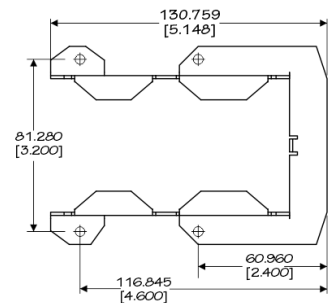
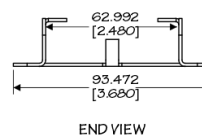
Level Measurement Range:	1.8 to 144 in (45.8 to 3658 mm) from bottom of sensor
Velocity Measurement Range:	0.25 to 9.84 ft/s (0.12 to 3.0 m/s)
Outputs:	4-20 mA Velocity and 4-20 mA Level, 1000 ohm at 24 VDC
Power Input:	10-26 VDC, 150 mA Max.
Operating Temperature:	32° to 150° F (0° to 65° C)
Accuracy:	Level: $\pm 0.25\%$ of actual Range or 0.04 in (1 mm), whichever is greater Velocity: $\pm 2\%$ of reading or ± 0.02 ft/s, whichever is greater
Linearity and Repeatability:	0.25%
Temperature Compensation:	Automatic, continuous
Sensor Cable:	50 ft (15 m) submersible 6-conductor, 18 ga. Optional: 100 ft (30 m) continuous
Sensor Mounting:	Includes MB-BF stainless steel mounting bracket Optional: Expandable pipe mounting bands available for nominal pipe sizes 12 to 40 in (DN 300 to 1000)
Exposed Materials:	PVC, epoxy resin, ultem, polyurethane
Approximate Shipping Weight:	4.4 lbs (2 kg)

Dimensions

Dimensions are mm [inches]



MB-BF Mounting Bracket



How to Order Contact a Greyline sales representative in your area or phone one of our sales engineers. Describe your requirements and receive our prompt quotation.

Applications Support Take advantage of Greyline's applications experience. Phone 1-888-473-9546 for advice and information on applications, installation or service for Greyline instruments.

The Greyline Guarantee Quality of Materials and Workmanship - Each instrument manufactured by Greyline is warranted against defects in materials and workmanship for a period of one year from date of purchase. Refer to our limited warranty included with each product.