

AVFM-II

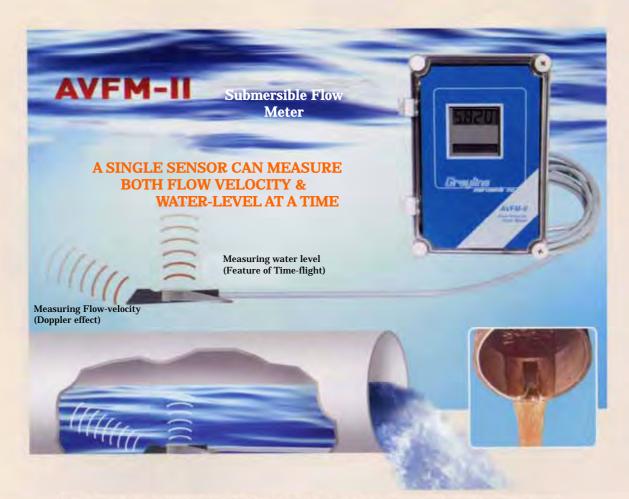
ULTRASONIC AREA-VELOCITY FLOW METER



A SENSOR CAN MEASURE BOTH FLOW RATE & WATER-LEVEL AT A TIME, CONTINUOUSLY







After mounting a sensor on the bottom of a channel without a flume or weir, you can measure the flow volume only by entering the pipe diameter or channel width As it measures the actual flow rate and water-level in a real time, it can come up with the highly accurate measurement

FEATURES

A single ultrasonic sensor continuously measures both velocity and level.

No flume or weir is needed.

The sensor can easily be mounted with a setscrew and a mounting bracket.

For calibration, just enter the pipe diameter or channel width, and there is no other special requirement.

It can measure flow velocity up to 6m/second.

PRINCIPLE OF OPERATION

It continuously measures velocity (on Doppler effect) and level (on time flight) with ultrasonic waves transmitted from the sensor to compute the flow volume in calibrating by entering the pipe diameter and channel width.



Monitoring for agricultural water-intake



Darin flow-volume monitoring



River inflow monitoring



Predicting river-flood

SPECIFICATION/ OUTLINE DIAGRAM

CONTROLLER

: 100-130VAC 50/60Hz (Max 6.2W) Power

* OPTION

200-250VAC 50/60Hz (Max 6.2W) 9 – 36VDC (Max 4.2W) : 4 – 20mA (Allowable load resistance Output

1000) x 3

(Flow,, Level & Velocity)
: 2 Contact-point (SPDT)

Contact

Contact capacity .

: 250VAC 5Å

Display

: 4 digit LCD (upper) 16 digit LCD(lower)

: -20 - 60 (no freezing,

Temperature

no condensation)

ENCL. rating

: NEMA4X IP66

Housing material

: ABS

[OPTION]

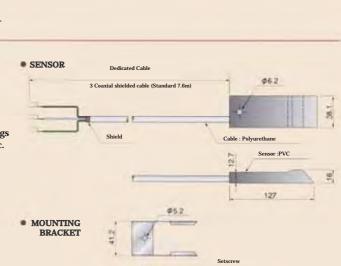
Intrinsic Safety Barriers

: CSA Explosion-proof/ Class I, Grp C, D

Class II, Grp E,F,G

Class III

^{*} Be sure to install at a safety zone or Div. 2 area.



Bracket: SUS316

188 164

Conduit Entry

278

III

SENSOR

: PVC / Epoxy resin Sensor

material

: -15 – 65 Temperature

Accuracy

: Level / ± 0.25% of range Velocity / ± 2% of readings

Measuring range

: Velocity / Min 0.03m /sec. Max 6m/sec / Min 25.4mm

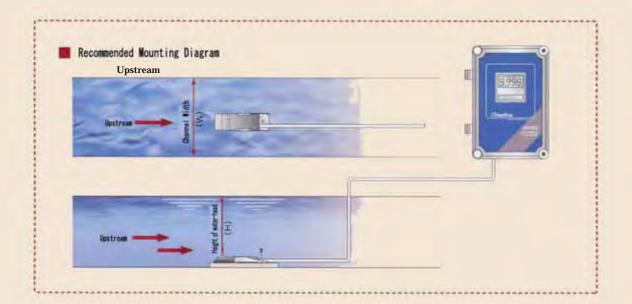
Max 4.57m

Cable material : Polyurethane

Cable length : About 7.6m

MOUNTING BRACKET

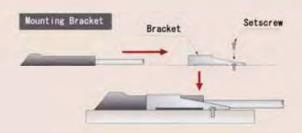
Bracket Material: SUS316



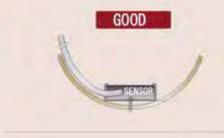
NOTES ON MOUNTING

Mount the sensor so its tapered-end points upstream and the sensor cable does downstream. Mount the sensor at such a place that there is least fine-sand or fouling.

Where there are some obstructions(interfering flowing), mount the sensor at a point of the maximum range to waterhead away from the obstruction, or 10 times as away as the channel width.





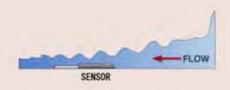
















Line of business

- 回転式レベルスイッチ
- ●樹鋏式レベルスイッチ
- ●振子式レベルスイッチ
- 普波式レベルスイッチ
- 静電容量式レベルスオッチ
- ・植物容量式近接センサ
- ◆師総容量式レベルメータ
- ・ダイヤフラム式レベルスイッチ
- ●チルトスイッチ
- ・リーク式レベルスイッチ
- •マイクロウェーブスイッチ
- サウンジングボレベルメータ

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- コンベア周辺機能
- ◆ダストモニタ
- ●ジルコニア酸素濃度計
- ・レーザー式レベルメータ
- ●電波式レベルメータ
- 液体凝度・凝度計
- 超高波流量計
- * Please be sure to read USER'S GUIDE, Installation & Operation Instructions when using the instrument.
- when using the instrument. * The specifications herein may be subject to change without advance notice

Nuclear Power Generation to Rice Milling All-round Manufacturer of Level Controllers for Powder, Granules and Liquid

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代理图 /Agent





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