

THE EDGE FLOW SENSOR

Ideal for use with all AW Gear Meter and Turbine flow meter applications requiring an analog, pulse, or Modbus output.



BENEFITS

Modbus Interface

With Modbus option, users can pull key parameter values via digital serial interface.

Linearizer

To improve output accuracy with some flow meters which are non-linear, a 10-point linearization table can be utilized through the Bluetooth app and PC Toolkit.

Easy Interface Verification

With the ability to force the sensor to output a frequency or analog signal, proper connection to user interface can be verified without need to run fluid flow.

APPLICATIONS

The EDGE Flow Sensor is ideal in general applications when sending an analog, pulse or modbus signal to a PLC or other control system.

FEATURES

- Analog output signal defaults to 4-20mA and 0-10V (0-5V, 1-5V & 2-10V selectable through PC Toolkit)
- Frequency output to 5KHz, flow dependent
- Modbus communication
- Excellent linearity, high temperature stability and long-term stability
- Powered by 12-24VDC
- 16-bit analog output resolution
- Password protected Bluetooth communication for wireless setup from a mobile device (can be disabled by factory)
- Totalizer and settable alarm
- Connect sensor to PC via standard USB-C cable
- Firmware can be updated by users via the PC Toolkit

TECHNICAL SPECIFICATIONS

Supply Voltage Range

12-24VDC $\pm 10\%$
Max current draw 40-100mA
(model-specific, contact factory)

Analog Output Options

4-20mA & 0-10V - Default
0-5V, 1-5V & 2-10V - Available
through PC Toolkit

Standard Max Output

+2.5% of max scaling
(20.5mA/5.125V /10.25V)

Error Indication

+10% of max scaling
(22mA/5.5V/11V)

Analog Output Resolution

16 bit

Analog Output Update Time

100mSec minimum

Ambient Temperature

-40°F to 185°F (-40°C to 85°C)

Pulse/Frequency Output:

Push/Pull output - default
Sinking or Sourcing optional.
Easy setup through PC Toolkit.

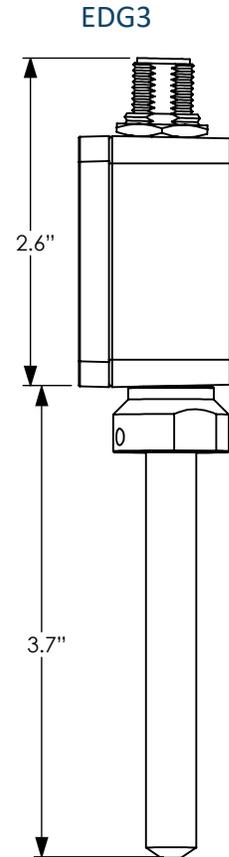
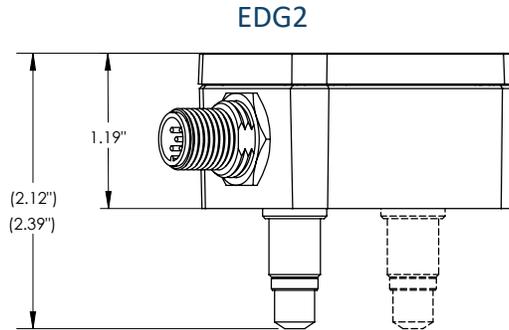
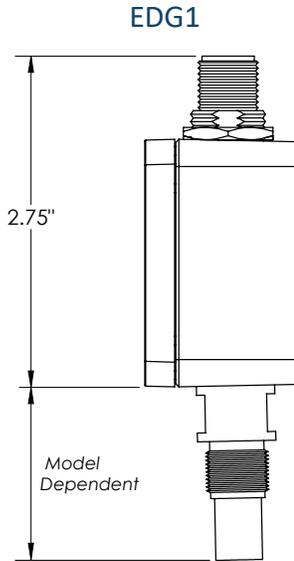
MATERIALS OF CONSTRUCTION

Housing	Anodized Aluminum
Pickup	303ss body w/ Zytel cap
Seal	Buna-N

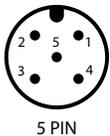
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DIMENSIONS



INDUSTRY STANDARD M12-A CONNECTORS

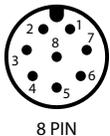


PULSE OUTPUT

- 1: 12-24VDC
- 2: GROUND
- 3: FREQ OUT 1
- 4: FREQ OUT 2
- 5: N/C

ANALOG + PULSE

- 1: 12-24VDC
- 2: GROUND
- 3: mA OUT
- 4: V OUT
- 5: FREQ OUT 1



ANALOG + PULSE + MODBUS

- 1: 12-24VDC
- 2: GROUND
- 3: FREQ OUT 1
- 4: FREQ OUT 2
- 5: mA OUT
- 6: V OUT
- 7: MODBUS +
- 8: MODBUS -

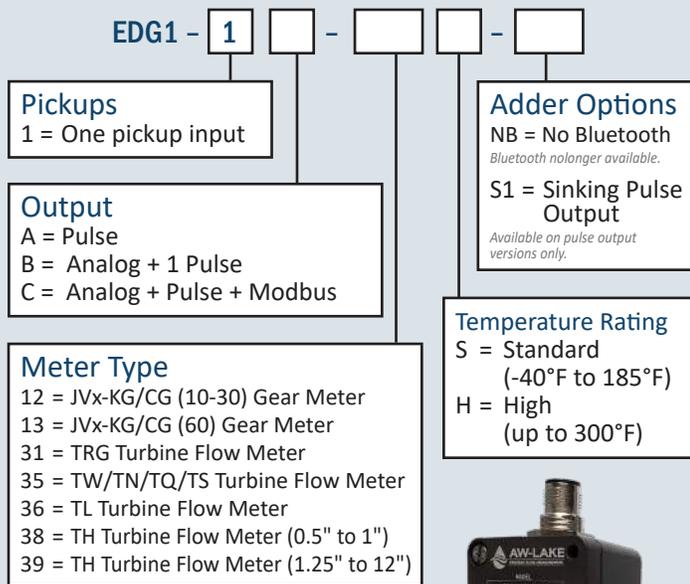
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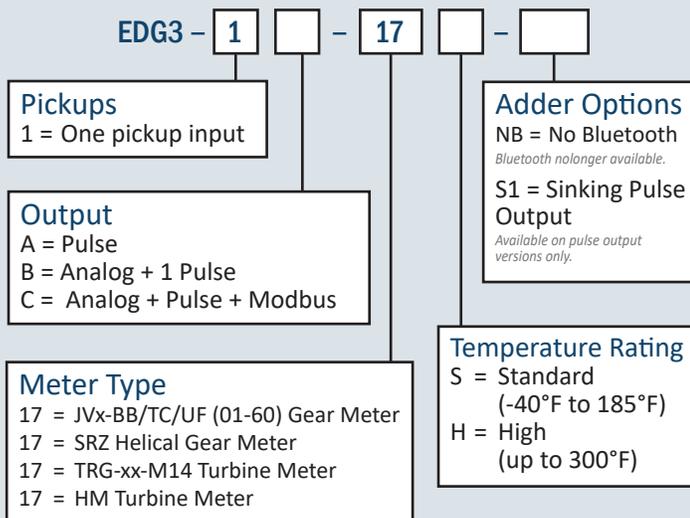
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PART NUMBER GUIDES

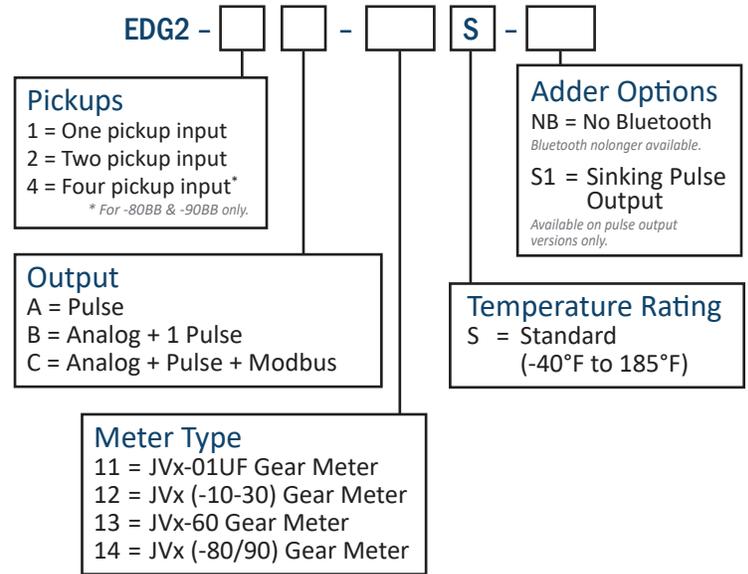
STANDARD THREAD-IN STYLE



M14 THREAD-IN STYLE



FLUSH-MOUNT STYLE



End-of-Life Disposal:

At the end of its service life, this product and its associated electronics should **not be discarded with municipal solid waste**. We strongly recommend recycling the unit in accordance with **all applicable local, state, and federal regulations**. Electronic components may qualify as universal waste and should be handled through an appropriate recycling or collection program. Responsible recycling supports our commitment to environmental stewardship under **ISO 14001**.

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