THE EDGE FLOW SENSOR – WITH BLUETOOTH

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

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 or "AWL Mobile Toolkit" mobile app)
- 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

BENEFITS

Streamlined Setup with Bluetooth*

These pickups are equipped with Bluetooth, making setup and scaling much easier. Setup from the "AWL Mobile Toolkit" application on a mobile device or the AW-Lake Toolkit PC software. You no longer need to walk from the device to your monitoring equipment when fine-tuning your adjustments.

**Pulse output version does not come standard with Bluetooth, but can be added.*

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.

Wireless Hand-Held Display

Using the Bluetooth mobile app on your phone, you have a wireless flow monitor in your hand!

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.

TECHNICAL SPECIFICATIONS

Supply Voltage Range

12-24VDC ±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 or mobile app

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.

Bluetooth

Contains Bluetooth Transmitter Module
FCC ID:12208A-01

MATERIALS OF CONSTRUCTION

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

AW-LAKE
PROCESS FLOW MEASUREMENT

2440 W. Corporate Preserve Dr. #600, Oak Creek, WI 53154 | www.aw-lake.com

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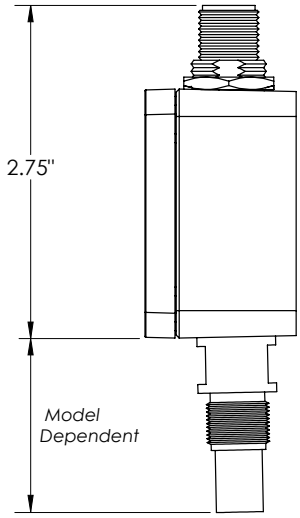
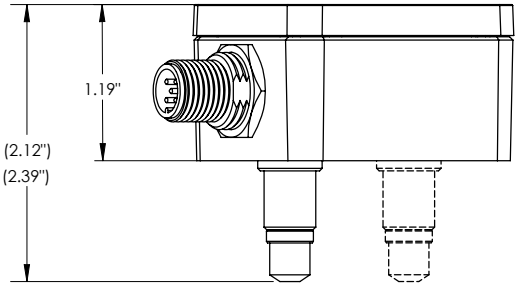
DIMENSIONS

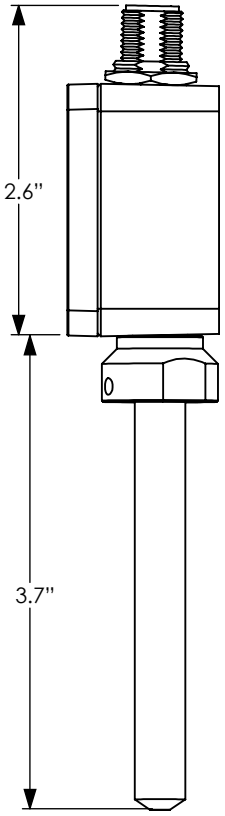
EDG1



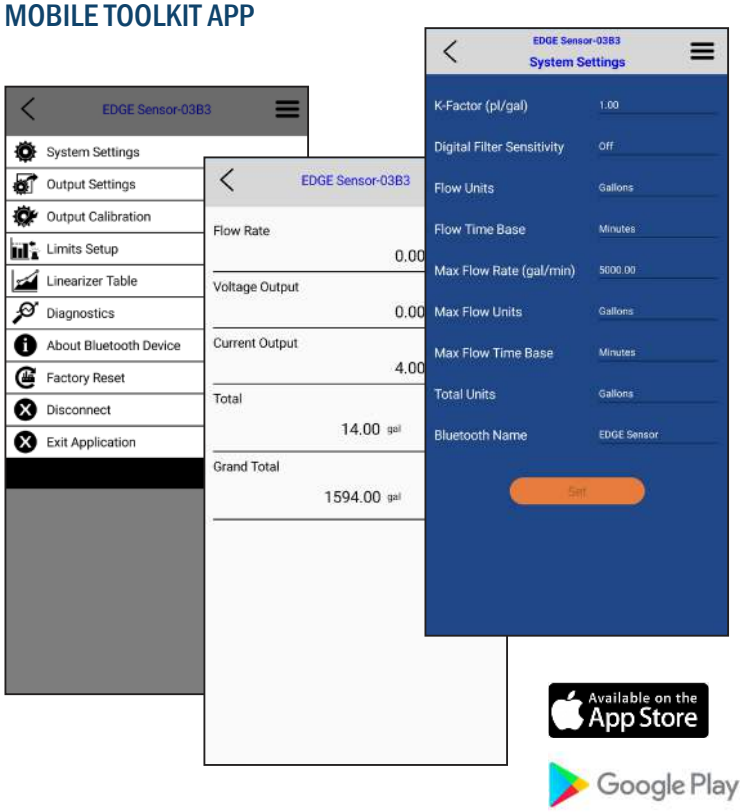
EDG2



EDG3



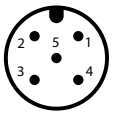
MOBILE TOOLKIT APP



Available on the App Store

Google Play

INDUSTRY STANDARD M12-A CONNECTORS



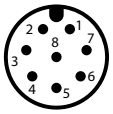
5 PIN

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



8 PIN

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 -

Products may be subject to change without notice - Contact factory for the most up-to-date product information.

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PART NUMBER GUIDES

STANDARD THREAD-IN STYLE

EDG1 – [1] [ ] – [ ] [ ] – [ ]

Pickups
1 = One pickup input

Output
A = Pulse (Bluetooth not available)
B = Analog + 1 Pulse
C = Analog + Pulse + Modbus

Meter Type
12 = JVx-KG/CG (10-30) Gear Meter
13 = JVx-KG/CG (60) Gear Meter
31 = TRG Turbine Flow Meter
35 = TW/TN/TQ/TS Turbine Flow Meter

Adder Options
NB = No Bluetooth
Bluetooth can be disabled for an additional charge upon request.
S1 = Sinking Pulse Output
Available on pulse output versions only.

Temperature Rating
S = Standard (-40°F to 185°F)
H = High (up to 300°F)

M14 THREAD-IN STYLE

EDG3 – [1] [ ] – [17] [ ] – [ ]

Pickups
1 = One pickup input

Output
A = Pulse (Bluetooth not available)
B = Analog + 1 Pulse
C = Analog + Pulse + Modbus

Meter Type
17 = JVx-BB/TC/UF (01-60) Gear Meter
17 = SRZ Helical Gear Meter
17 = TRG-xx-M14 Turbine Meter
17 = HM Turbine Meter

Adder Options
NB = No Bluetooth
Bluetooth can be disabled for an additional charge upon request.
S1 = Sinking Pulse Output
Available on pulse output versions only.

Temperature Rating
S = Standard (-40°F to 185°F)
H = High (up to 300°F)

FLUSH-MOUNT STYLE

EDG2 – [ ] [ ] – [ ] [S] – [ ]

Pickups
1 = One pickup input
2 = Two pickup input
4 = Four pickup input*
** For -80BB & -90BB only.*

Output
A = Pulse (Bluetooth not available)
B = Analog + 1 Pulse
C = Analog + Pulse + Modbus

Meter Type
11 = JVx-01UF Gear Meter
12 = JVx (-10-30) Gear Meter
13 = JVx-60 Gear Meter
14 = JVx (-80/90) Gear Meter

Adder Options
NB = No Bluetooth
Bluetooth can be disabled for an additional charge upon request.
S1 = Sinking Pulse Output
Available on pulse output versions only.

Temperature Rating
S = Standard (-40°F to 185°F)

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