

# AO55 Blind Analog Transmitter Quick Start Guide

#### **Components**

**AO55 Wall Mount Unit** 



#### **AO55 Meter Mount Unit**



#### **Recommended Tools**

- Hex wrench (5/32" or 4 mm)—for opening the cover
- Small flat head screw driver—for adjusting frequency and connecting wiring

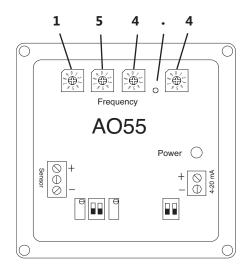
### **Setting Frequency**

Loosen the screws and then remove the upper portion of the housing.

- 1. Decide what flow rate should represent the top of the scale. This is ordinarily the maximum expected flow, or a value just above it, in gallons per minute.
- 2. Locate the K-factor of the flow sensor (found on the meter or fitting, or in the instruction manual, depending on meter model). The K-factor is the number of pulses the flow sensor produces per gallon of flow.
- 3. Calculate frequency, using this formula:

K-Factor x 
$$\frac{\text{Top Flow (GPM)}}{60}$$
 = Frequency  
For example:  
 $54.50 \times \frac{170}{60}$  = 154.42

 Round to one decimal place and enter the frequency using the four rotary Frequency switches. Note the decimal point between the third and fourth switches.





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#### **Connections**

The only connections required on a meter mounted AO55 are the positive and negative 4-20 mA loop connections. If wall mounted, the sensor must also be connected, since it is remote from the transmitter. Sensor Connections 4-20 mA Connections Wiring AO55 to a Mechanical Sensor Frequency AO55 24-36 Vdc Power Supply may be included in Power ( + senso control unit) White Black  $\tilde{\mathbb{Q}}$ Black 4-20 mA Device (e.g. Pump, PLC, Chart Recorder) Mechanical Sensor Wiring AO55 to an **EX Magmeter** -0-Frequency Magmeter Terminal Block AO55 24-36 Vdc + 24 Vdc Power Supply may be included in Power () Black control unit) + sensor - Green Forward + Black White Output \_ Black 4-20 mA Device (e.g. Pump, PLC, Chart Recorder)

For detailed information, including averaging time and calibration, please see the AO55 Instructions booklet, available on our web site at: seametrics.com/downloads.