



Field Calibration of Series RSS Sensing Switches Bulletin RSS-04.00

The **RSS-495** and **RSS-498** contractor kit switches ship from the factory calibrated at their minimum set points of 0.2" wc and 1.0" wc, respectively. To adjust the set point, insert the provided adjusting tool into the adjustment screw located between the mounting feet in the underside of the switch. Viewing from the adjustment screw, turn clockwise to the desired set point. **Do not exceed the maximum number of turns recommended below.**

RSS-495

The maximum number of turns is **five (5)**, covering a set point range of **0.2 to 1.0"wc.**, as shown in **Figure 1** on the reverse side of this bulletin.

To determine the number of turns required, use the following equation:

$$\frac{(\text{required set point} - \text{initial set point})}{0.16} = \text{number of turns clockwise, where initial set point} = 0.2\text{"wc.}$$

Example: if required set point = 0.6"wc, and initial set = 0.2"wc, then 2.5 turns are required because $(-.6 - .2 = .4; .4/.16 = 2.5)$.

RSS-498

The maximum number of turns is four (4), covering a set point range of 1.0 to 4.0"wc., as shown in Figure 2 on the reverse side of this bulletin.

To determine the number of turns required, use the following equation:

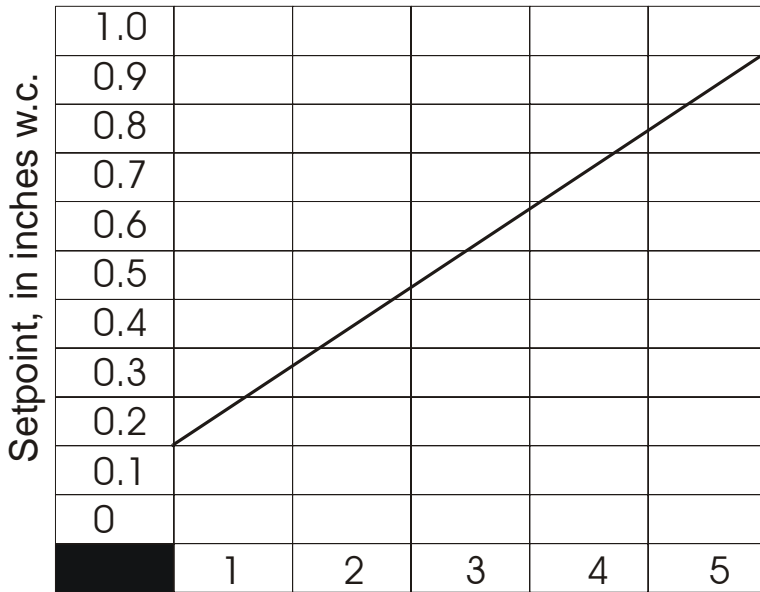
$$\frac{(\text{required set point} - \text{initial set point})}{0.75} = \text{number of turns clockwise, where initial set point} = 1.0\text{"wc.}$$

Example: if required set point = 2.5"wc, and initial set = 1.0"wc, then 2 turns are required because $(2.5 - 1.0 = 1.5; 1.5/.75 = 2)$.

Please Note:

To calibrate a Cleveland Controls air switch, a **digital manometer** should be used to confirm actual set point. After calibration, use only **Loctite "Assure 425"**, or equivalent cyanoacrylate ester, to seal the adjusting screw.

Figure 1: RSS-495
 Set Point Range = 0.2 to 1.0"wc.



Turns on Set Point Adjustment Screw
 (starting at 0.2"wc, minimum.

Figure 2: RSS-498
 Set Point Range = 1.0 to 4.0"wc.



Turns on Set Point Adjustment Screw
 (starting at 1.0"wc, minimum.