

APPLICATION NOTE

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Subject: Re-Zeroing ProSense Bi-Metal Thermometers

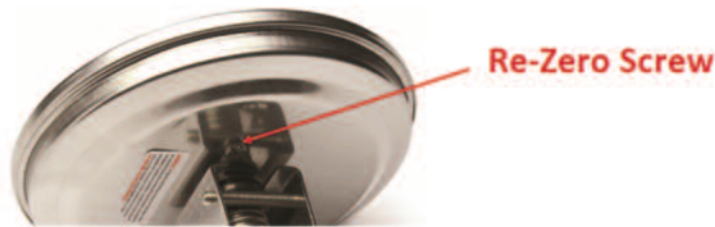
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ProSense Bi-Metal Thermometers have a Re-Zero or Recalibration screw on the back of the dial housing. When recalibrating the thermometer use a reference thermometer with a high degree of accuracy.

Immerse the bi-metal thermometer alongside the reference thermometer into an agitated liquid at about the same depth for at least three minutes and compare the temperature readouts. Use the Re-Zero screw to adjust the temperature until it matches the reference thermometer.



Note: Maximum adjustment is +/- 14% of full scale spread. For example: -40°F to 160°F range = total 200°F spread; re-zero span is $0.14 \times 200^\circ\text{F} = 28^\circ\text{F}$.

Maximum Range of Re-Zero Span		
-40 to 160F range	Total 200°F spread	Re-zero span is $0.14 \times 200^\circ\text{F}$ or 28°F
0 to 250F range	Total 250°F spread	Re-zero span is $0.14 \times 250^\circ\text{F}$ or 35°F
50 to 500F range	Total 450°F spread	Re-zero span is $0.14 \times 450^\circ\text{F}$ or 63°F
150 to 750F range	Total 600°F spread	Re-zero span is $0.14 \times 600^\circ\text{F}$ or 84°F

Technical Assistance

If you have any questions regarding this Application Note, please contact Technical Support at 770-844-4200.