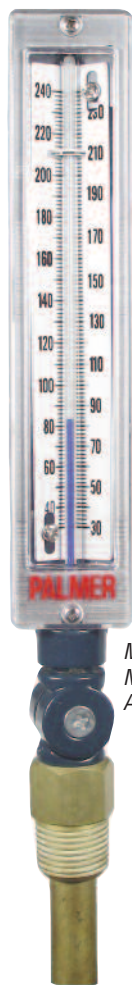


# All Angle Wide or Narrow Case

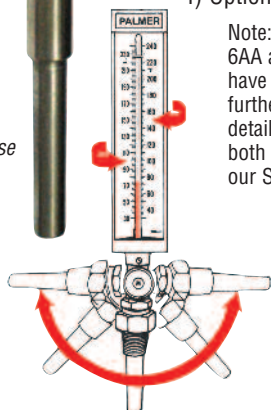
# Model 3AA • 2AA • 7AA • All Angle Wide or Narrow Case Thermometers



Model 3AA  
Wide Case  
All Angle



Model 7AA  
Narrow Case  
All Angle



**All Angle Adjustment:** Just two screws permit cases to be rotated 180° and stems to be positioned in 10° increments. Users can "infinitely" adjust Wide Case Industrial Thermometers to virtually any viewing angle required.

**All Angle, Wide Case Models 3AA and 2AA** are a versatile solution to many problems encountered in ordering, stocking, and replacing Industrial Thermometers. 2-1/4" wide in either 9" or 12" case. All Angle Adjustment feature allows one thermometer to be "infinitely" adjusted to virtually any installation and viewing angle, greatly simplifying engineering and purchasing operations. Red Reading, Mercury-Filled tubes for high visibility and accuracy. Red Spirit Fill also available.

**All Angle, Narrow Case Model 7AA** offers quality and economy together in a space saving thermometer. Only 1-11/32" wide with a 6-1/2" case, this thermometer also includes a Brass thermowell. Features All Angle Adjustment. *2AA Series is Discontinued*

## Specifications

**Case Length:** 3AA: 9" (229mm); 2AA: 12" (305mm). 7AA: 6-1/2" (165.1 mm).

**Case Width:** 3AA, 2AA: 2.25" (57mm) Case. 7AA: 1-11/32" (34 mm) Case.

**Case Material:** 3AA, 2AA: Aluminum. 7AA: Blue Painted Aluminum.

**Case Style:** All Angle Adjustable.

**Crystal:** 3AA, 2AA: Instrument Glass. 7AA: Plastic Crystal and Cover.

**Scale:** Black numerals and graduations on aluminum scale. Engraved scale standard on 12".

**Glass Tube:** 3AA, 2AA: "Red-Reading" Lens glass, individually calibrated, thoroughly annealed and aged for permanent accuracy. 7AA: Magnified Lens; compact, yet visible.

**Fill:** 3AA, 2AA: "Red-Reading" Mercury Fill Standard, Red Spirit optional. 7AA: Sky Blue Fill.

**Accuracy:** 3AA, 2AA:  $\pm 1/2$  scale division,  $\pm 1$  scale division if Red Spirit Filled. 7AA: 1% of Full Scale.

**Calibration:** 3AA, 2AA: Calibrated to NIST traceable standards.

**Fitting:** 3AA, 2AA: 1-1/4" -18 UNEF Brass Swivel Nut, Stainless Steel optional. 7AA: Blue Painted Aluminum Knuckle.

**Bulb:** 3AA, 2AA: Stainless Steel, tapered, 0.437" (11mm). 7AA: Aluminum, Straight Shank, 3/8" Diameter.

**Thermowell:** 3AA, 2AA: See Palmer Thermowell Catalog PW1100. 7AA: 1/2" NPT Brass Thermowell with 0.531" diameter included.

## Ordering Information

Please specify the following:

- 1) Base Model Number
- 2) Stem Length Code
- 3) Range Code
- 4) Options Code (not 7AA)

Note: The 7AA replaces the 6AA and 6000 Series which have been discontinued. For further information, and a detailed drawing comparing both models, please contact our Sales office.

| Stem Length Codes |           |                |
|-------------------|-----------|----------------|
| 7AA               | 3AA / 2AA | Length (mm)    |
| 2.25              | NA        | 2.25" (57.2mm) |
| NA                | 3.5       | 3.5" (89mm)    |
| NA                | 6         | 6" (152.4mm)   |
| NA                | 8         | 8" (203mm)     |
| NA                | 12        | 12" (305mm)    |

| 3AA / 2AA Option Codes |                     |
|------------------------|---------------------|
| Code                   | Option Description  |
| (DH)                   | Drain Holes         |
| (DS)                   | Dual Scale          |
| (ES)                   | Engraved Scale      |
| (OPS)                  | One Piece Stem/Bulb |
| (PC)                   | Plastic Crystal     |
| (RS)                   | Red Spirit Fill     |
| (SN)                   | 304SS Swivel Nut    |

## 7AA / 3AA / 2AA STANDARD RANGE CODES

| °F Range Code | 7" Div | 9" Div | 12" Div* | Dual Range Code | 7" Div | 9" Div      | 12" Div*    |
|---------------|--------|--------|----------|-----------------|--------|-------------|-------------|
| -40/110F      | NA     | 2°     | 1°       | -40/110F&C      | NA     | 2°F / 2°C   | 1°F / 1°C   |
| 0/120F        | NA     | 1°     | 1°       | 0/120F&C        | NA     | 1°F / 0.5°C | 1°F / 0.2°C |
| 0/160F        | 2°     | 2°     | 1°       | 0/160F&C        | 2°     | 2°F / 0.5°C | 1°F / 0.2°C |
| 20/180F       | NA     | 2°     | 1°       | 20/180F&C       | NA     | 2°F / 1°C   | 1°F / 0.5°  |
| 30/240F       | 2°     | 2°     | 1°       | 30/240F&C       | 2°     | 2°F / 1°C   | 1°F / 0.5°C |
| 30/300F       | NA     | 2°     | 2°       | 30/300F&C       | NA     | 2°F / 1°C   | 2°F / 1°C   |
| 50/400F*      | NA     | 5°     | 5°       | 50/400F&C*      | NA     | 5°F / 2°C   | 5°F / 2°C   |

\* Mercury Fill only.

Specifications subject to change without notice

Register your product at [www.palmerwahl.com/register](http://www.palmerwahl.com/register)