

## NAVY TYPE DUAL MODE THERMOMETER

REOTEMP's Navy Type Dual Mode Thermometer combines a bimetal thermometer and RTD sensor into the same stem. This provides local indication and remote reading from a single instrument. The unit has a heavy duty, all-welded construction built to withstand tough shock and high vibration environments. The DMS option meets the requirements for MIL-S-901D and MIL-STD-167-1A for navy mil-spec shock and vibration.



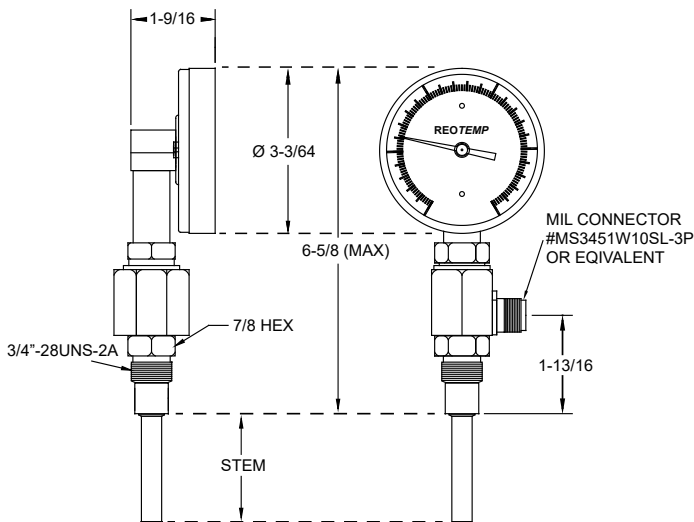
Made in the USA

### FEATURES / BENEFITS

- An Improved Dual Element Alternative to Standard MIL-I-17244E Bimetal Thermometer
- Reinforced Construction Designed for Use on Navy Ships and Other Demanding Applications
- Independent Local and Remote Reading (Up to 1000°F) from One Thermowell
- Redundant Sensors for Simple, Effective Calibration or Spot Checking Without Removing the Instrument from the Thermowell
- Interchangeable with Existing Thermometer, RTD, or Thermocouple
- DMS Model is Navy Mil-Spec Approved (MIL-S-901D & MIL-STD-167-1A)

### SPECIFICATIONS

<b>Approvals (Optional)</b>	MIL-S 901D (Shock) and MIL-STD-167 (Vibration)
<b>Sensor</b>	100Ω Platinum 3 Wire RTD
<b>RTD Temperature Range</b>	-40°F to 1000°F
<b>Accuracy</b>	RTD: Class B Bimetal: ± 1% of Scale
<b>Electrical Connection</b>	Mil Connector MS3451W10SL-3P 3 Pin Electrical Cable Connection
<b>Dial Range</b>	All Standard Bimetal Ranges. See page 141 for a Complete Range Code Guide
<b>Dial Size</b>	3" or 5"
<b>Process Connections</b>	3/4"-28 Thread, 1/2" NPT, or 7/8" 14 with Fixed Swivel Union and Navy Collar
<b>Stem Diameter</b>	3/8" DMN & DMS Models, 1/4" for DMC
<b>Lens</b>	Polycarbonate
<b>Stem Material</b>	304SS
<b>External Dial Reset</b>	Slotted Hex Screw



## NAVY TYPE DUAL MODE THERMOMETER

**HOW TO ORDER:** Choose options to build a part number. For example: **DMNA04F53RA3**

DM	N	A	04	F53	R	A3
STYLE	BIMETAL CONNECTION	STEM LENGTH	TEMPERATURE RANGE	SENSOR TYPE	ELECTRICAL CONNECTION	PROCESS CONNECTION
<b>N</b> = Navy Type 3/8" Stem; Fixed Swivel Union <b>C</b> = Navy Type 1/4" Stem; Fixed Swivel Union	<b>A</b> = 3" Back <b>X</b> = 3" Bottom Reset <b>L</b> = 3" Adjustable <b>J</b> = 5" Adjustable	<b>02</b> = 2" <b>04</b> = 4" <b>06</b> = 6" <b>09</b> = 9"  Note: Intermediate lengths available.	<b>F53</b> = 20°F to 240°F <b>F69</b> = 50°F to 550°F <b>F85</b> = 200°F 1,000°F  Other Ranges Available, See page 141 for a Complete Range Code Guide	<b>R</b> = RTD, Pt 100/385 High Vibration	<b>A3</b> = Mil Spec 3 Pin Connector	<b>No Code</b> = 3/4"-28 Fixed Swivel Union with Navy Collar (Standard) <b>P</b> = 1/2" NPT Fixed Swivel Union w/ Navy Collar <b>I</b> = 7/8"-14 Fixed Swivel Union w/ Navy Collar

## MIL-SPEC DUAL MODE THERMOMETER

The MIL-SPEC Dual Mode Thermometer has passed rigorous impact testing to achieve MIL-S-910D (Shock) and MIL-STD-167-1A(Vibration).

**HOW TO ORDER:** Choose options to build a part number. For example: **DMSA04F53RA3**

DM	S	A	04	F53	R	A3
STYLE	BIMETAL CONNECTION	STEM LENGTH	TEMPERATURE RANGE	SENSOR TYPE	ELECTRICAL CONNECTION	
<b>S</b> = Mil-Spec Approved, 3/8" Stem, 3/4"-28 Standard Thread, Fixed Swivel Union with Navy Collar	<b>A</b> = 3" Back <b>X</b> = 3" Bottom Reset	<b>02</b> = 2" <b>04</b> = 4" <b>06</b> = 6" <b>10</b> = 10"  Note: Intermediate lengths available. Max stem length is 10".	<b>F53</b> = 20°F to 240°F <b>F69</b> = 50°F to 550°F <b>F43</b> = 0°F to 200°F  Other Ranges Available, See page 141 for a Complete Range Code Guide	<b>R</b> = RTD, Pt 100/385 High Vibration	<b>A3</b> = Mil Spec 3 Pin Connector	

# BIMETAL TEMPERATURE RANGE CODE MASTER LIST

## FAHRENHEIT RANGES

Code	°F Range	Div.
F03	-100/100	2
F05	-100/200	2
F07	-80/120	2
F11	-70/150	2
F19	-50/300	5
F21 <sup>†</sup>	-40/120	2
F23	-40/160	2
F25	-40/180	2
F26	-40/200	2
F27 <sup>‡</sup>	-40/70	1
F31 <sup>†</sup>	-20/120	2
F33	-20/425	5
F35 <sup>‡</sup>	0/100	1
F37 <sup>†</sup>	0/140	2
F39 <sup>†</sup>	0/150	1
F43	0/200	2
F45	0/220	2
F47	0/250	2
F49	0/300	2
F50	0/500	5
F51	0/600	10
F53	20/240	2
F55 <sup>‡</sup>	25/125	1
F57 <sup>‡</sup>	30/130	1
F63	50/300	2
F65	50/400	5
F67	50/500	5
F69	50/550	5
F71	50/650	10
F73	50/750	10
F78	100/600	5
F79	100/800	10
F81	150/750	10
F82	200/700	20
F83	200/300	2
F84	100/900	5
F85	200/1000	10
F89	250/600	5
F91	300/400	2
F92	0/1200	2

## CELSIUS RANGES

Code	°C Range	Div.
C01	-80/220	2
C03	-70/70	2
C06	-70/30	1
C07	-50/50	1
C08	-60/120	2
C09 <sup>‡</sup>	-50/0	1
C15	-50/100	2
C17	-50/200	2
C19	-40/160	2
C20	-60/300	5
C23	-40/70	1
C24	-40/350	5
C27 <sup>‡</sup>	-30/30	1
C31 <sup>†</sup>	-20/40	1
C32	-20/60	
C33	-20/220	2
C34	-20/320	5
C35 <sup>‡</sup>	0/30	.5
C37 <sup>‡</sup>	0/60	1
C38 <sup>†</sup>	0/80	
C43	0/100	1
C47	-20/120	2
C53	-10/110	1
C55 <sup>‡</sup>	0/50	.5
C56	0/120	1
C59	0/150	1
C60	50/150	
C61	0/160	2
C63	10/150	2
C65	0/200	2
C67	0/250	2
C69	0/300	2
C71	0/300	5
C73	0/400	5
C74	0/450	5
C75	0/500	5
C79	50/450	5
C81	50/400	5
C85	100/500	5
C87	100/550	5

## DUAL RANGES

Code	°F & °C Range
D01	-150/400 & 100/200
D03	-100/100 & -70/40
D07	-80/120 & -60/50
D15	-50/210 & -50/100
D19	-50/300 & -40/160
D23	-40/160 & -40/70
D37 <sup>†</sup>	0/140 & -15/60
D39 <sup>†</sup>	0/150 & -20/65
D41 <sup>†</sup>	0/160 & -15/70
D43	0/200 & -10/90
D45	0/220 & -10/100
D47	0/250 & -20/120
D49	0/300 & -10/150
D53	20/240 & -10/115
D55 <sup>‡</sup>	25/125 & -5/50
D63	50/300 & 10/150
D65	50/400 & 10/200
D67	50/500 & 10/260
D69	50/550 & 10/290
D77	100/450 & 40/230
D79	100/800 & 40/400
D81	150/750 & 70/400
D85	200/1000 & 100/500
D87	200/1000 & 100/550

‡ Minimum stem length is 4".

† For 2.5" stem, all bottom connect and all-angle models require adapter P/N AD22S.