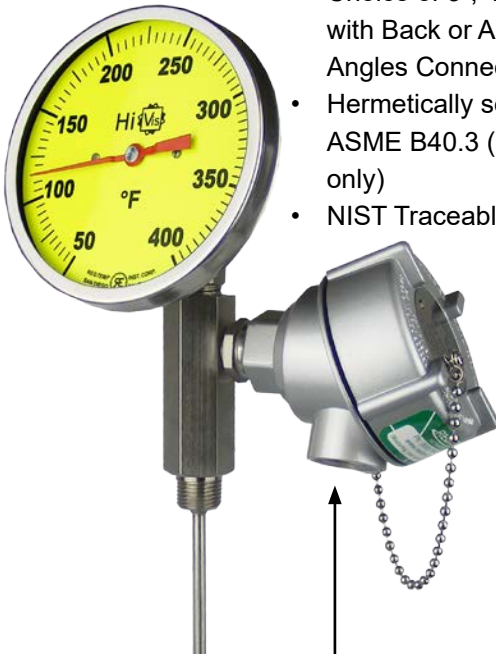


DUAL MODE THERMOMETER

REOTEMP's Dual Mode Thermometer (DMT) is a convenient, multi-purpose indicator for local and remote temperature monitoring. This rugged dual-sensor system puts TWO independent sensors in ONE THERMOWELL, and allows easy tie-in to process controls. Both sensors are NIST traceable. Special sensor encapsulation and optional liquid filling make the DMT the most rugged, durable instrument of its kind.

Bimetal Thermometer

- Local Easy-to-Read Temperature Indication
- Self-Actuating, Dampened Bimetal Helix Sensor
- Choice of 3", 4", or 5" Sizes, with Back or Adjustable Angles Connection
- Hermetically sealed per ASME B40.3 (3/8" stem only)
- NIST Traceable Calibration



Thermocouple or RTD

- Remote and Local Indication
- Data Acquisition for Process Control
- Choice of Connection Styles (see drawings on following page)
- 4-20mA Transmitter Output Available

Standard Delivery 3-5 Days

Intended for Use with Thermowell
(Available through Reotemp)



Made in the USA



Fillable



Dials



Accuracy



Custom Logo

FEATURES / BENEFITS

- Allows 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
- Easily Installed in Any Standard Thermowell
- Interchangeable with Existing Thermometer, RTD, or Thermocouple

SPECIFICATIONS

CASE & BEZEL: 304SS (Standard), 316SS

CASE STYLE: Back or Adjustable Angle Connection

DIAL SIZE: 3", 4", or 5"

PROCESS CONNECTION: 1/2" NPT (Standard), 1/2" NPT Union

EXTERNAL RESET: Slotted Hex Screw

CRYSTAL: Glass (Standard), Plastic or Tempered Glass

HERMETIC SEAL: Bimetal Thermometer per ASME B40.3 (3/8" Stem Only)

STEM MATERIAL: 304SS

STEM DIAMETER: 0.375" O.D. or 1/4" O.D.

STEM LENGTH: 2 1/2" to 36"

TC/RTD TEMPERATURE LIMITS: -100°F to 1000°F (Thermocouple), -100°F to 600°F (RTD - DM4 Model), -100°F to 900°F (RTD - DMT Model)

RTD: 100 Ω Platinum; 0.00385 Ω/0°C, 3-wire (Standard), Others Available - Contact Factory

RTD ACCURACY: 0.12%°C, Others Available Upon Request

HEAD ORIENTATION: RTD or Thermocouple Head is Mounted to the Right of the Bimetal Thermometer

THERMOCOUPLE: Type K Gounded Junction (Standard), Types T, E, J, and Ungrounded

THERMOCOUPLE ACCURACY: Type K ± 2.2°C or 0.75% (-200°C to 1260°C), Whichever is Greater, Others Available Upon Request

BIMETAL RANGES: Standard Ranges and Divisions up to 800°F (538°C), See Page 42 for Complete Range Code Guide

BIMETAL OVER RANGES: 50% Over Range to 550°F, 1000°F Max

BIMETAL ACCURACY: ± 1% of Full Scale

THERMOWELL: Model DMT Fits Any Standard 0.385" Bore Thermowell or Model DM4 Fits 0.260" Bore

OPTIONS: Silicone Case Fill for Vibration (3/8" Stem Only); 1 pt. or 3 pt. Calibration, Hi-Vis™ Dial for Bimet, Sanitary Tri-Clamp® Fittings, SS Tag

Tri-Clamp® is a registered trademark of Alpha Laval Inc.

DUAL MODE THERMOMETER



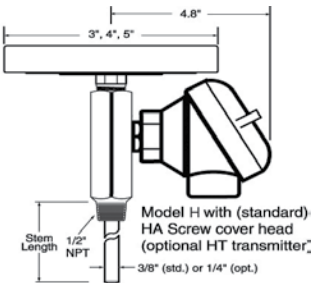
Visit reotemp.com

- ✓ Check Stock
- ✓ Get Price
- ✓ Configure Part #
- ✓ Generate a Custom Engineering Drawing

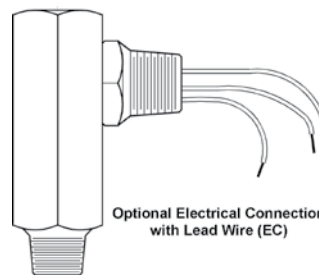
HOW TO ORDER: Choose options to build a part number. For example: **DMTA040F23TKAA-HV**

DM	TA	040	F23	TK	A	A	-HV
STYLE & STEM DIAMETER	STEM LENGTH	TEMPERATURE RANGE	SENSOR	HEADS/OUTPUT CONNECTIONS	ELECTRICAL CONNECTION	OPTIONS	
<p><i>3/8" Stem</i></p> <p>TA = 3" Back Connect TC = 4" Back Connect TB = 5" Back Connect TL = 3" Adjustable-Angle TM = 4" Adjustable-Angle TJ = 5" Adjustable-Angle</p> <p><i>1/4" Stem</i></p> <p>4A = 3" Back Connect 4C = 4" Back Connect 4B = 5" Back Connect 4L = 3" Adjustable-Angle 4M = 4" Adjustable-Angle 4J = 5" Adjustable-Angle</p>	<p>025 = 2.5** 040 = 4" 060 = 6" 090 = 9" 120 = 12" 150 = 15" 180 = 18" 240 = 24" 300 = 30" 360 = 36"</p> <p>*Only available on 3/8" stem diameter.</p> <p>Note: Intermediate stem lengths available up to 80".</p>	<p>See Master Range Code Sheet on Page 42</p> <p><i>Fahrenheit Ranges</i></p> <p>F03 = -100°F to 100°F F23 = -40°F to 160°F F55 = 25°F to 125°F* F43 = 0°F to 200°F F47 = 0°F to 250°F F53 = 20°F to 240°F F63 = 50°F to 300°F F65 = 50°F to 400°F F69 = 50°F to 550°F F79 = 100°F to 800°F</p> <p><i>Celsius Ranges</i></p> <p>C03 = -70°C to 70°C C23 = -40°C to 70°C C55 = 0°C to 50°C* C43 = 0°C to 100°C C47 = -20°C to 120°C C53 = -10°C to 110°C C59 = 0°C to 150°C C65 = 0°C to 200°C C69 = 0°C to 300°C C81 = 50°C to 400°C</p> <p><i>Dual Scale Ranges</i></p> <p>D03 = -100°F to 100°F & -70°C to 40°C D23 = -40°F to 160°F & -40°C to 70°C D55 = 25°F to 125°F & -5°C to 50°C* D43 = 0°F to 200°F & -10°C to 90°C D47 = 0°F to 250°F & -20°C to 120°C D53 = 20°F to 240°F & -10°C to 115°C D63 = 50°F to 300°F & 10°C to 150°C D65 = 50°F to 400°F & 10°C to 200°C D69 = 50°F to 550°F & 10°C to 290°C D79 = 100°F to 800°F & 40°C to 400°C</p>	<p><i>Thermocouple (Single, Grounded)</i></p> <p>TK = Type K TJ = Type J TE = Type E TT = Type T</p> <p><i>Thermocouple (Single, Ungrounded)</i></p> <p>UK = Type K UJ = Type J UE = Type E UT = Type T</p> <p><i>Thermocouple (Dual, Grounded)</i></p> <p>TKK = Type K TJJ = Type J TEE = Type E TTT = Type T</p> <p><i>Thermocouple (Dual, Ungrounded)</i></p> <p>UKK = Type K UJJ = Type J UEE = Type E UTT = Type T</p> <p><i>RTD (Single)</i></p> <p>RC = RTD, Pt. 100 ohm, 3-wire (Max. 600°F - DM4) (Max. 900°F - DMT)</p>	<p>A = Cast Iron Black C = Poly Plastic Black E = Explosion Proof Aluminum G = 316SS H = Cast Aluminum M = Aluminum Flip Top I = Blue Epoxy-Coated Aluminum J = Explosion Proof 316SS S = Poly Plastic White T = ATEX Explosion Proof Aluminum Z = Window Explosion Proof (Digital Display Required) EC = 1/2" NPT Male Electrical Connection w/ Lead Wire (See Drawing & Ignore Electrical Connection Section)</p>	<p>A = Terminal Block N = No Terminal Block, 6" Leads T = 4-20mA Xmtr D = 4-20mA Hart Xmtr B = 4-20mA Xmtr w/ Display* H = 4-20mA Hart Xmtr w/ Display*</p> <p>*Only available with Z Head</p>	<p><i>General Options (Choose up to 4)</i></p> <p>-3H = 316 SS Head and Bezel -PS = Pointed Stem -S3 = 3/8" diameter Stem -SF = Silicone Filled -SS = 316 Stainless Stem -WD = White Dial (std. ranges only) -HV = Hi-Vis™ Dial (High Visibility) -NL = No Logo Dial -CB = Color Bands -F5 = 5/16" diameter Stem -PI = Color Pie (specify color and range)</p> <p>Custom Logo Dial Available, Contact Customer Service.</p> <p><i>Window Options (Std. is glass)</i></p> <p>-MM = Min-Max Pointer (Plastic Lens) -PC = Acrylic Window -PY = Polycarbonate Window -TG = Tempered Glass Window -SG = Laminated Safety Glass</p> <p><i>Calibration Cert. Options</i></p> <p>-R1 = One Point Calibration Cert -R3 = Three Point Calibration Cert</p> <p><i>Tags and Accessories (up to 2)</i></p> <p>-TS = TAG, Stainless -TP = TAG, Paper -AS = Adapts Bimet to 1-1/4-18 industrial socket -HT = Heat Transfer Compound</p>	

Note: Thermowells should be used whenever the stem or bulb would be exposed to pressure, corrosion, velocity, abrasion or shear forces. Thermowells also make it possible to remove the thermometer without losing pressure or the contents of the process.



*dimensions in inches



*Not available in 2.5" stem.

For Thermowells, see pages 34-37.