

Ertco ASTM Precision Thermometers

Thermometer sets and individual ASTM precision thermometers traceable to NIST to be used as standards for calibration procedures.

Complete Sets of ASTM Factor-Calibrated Thermometers

Order #	No. of Thermometers	ASTM #s	Ranges Covered	Price
MP23927T-C	9	62°C-70°C	-38 to 405°C	
MP23927T-F	9	62°C-70°F	-36 to 761°F	



▲ 23927T

Replacement ASTM Thermometers

Order #	Range	Division	Length	Calibrated (Certified) at	Price
MP23929T-62C	38 to 2°C	0.1°C	379 mm	-37°, -30°, -20°, -10°, 0°C	
MP23929T-63C	-8 to 32°C	0.1°C	379 mm	-7°, 0°, 10°, 20°, 30°C	
MP23929T-64C	25 to 55°C	0.1°C	379 mm	0°, 25°, 35°, 45°, 55°C	
MP23929T-65C	50 to 80°C	0.1°C	379 mm	0°, 50°, 60°, 70°, 80°C	
MP23929T-66C	75 to 105°C	0.1°C	379 mm	0°, 75°, 85°, 95°, 105°C	
MP23929T-67C	95 to 155°C	0.2°C	379 mm	0°, 100°, 110°, 130°, 150°C	
MP23929T-68C	145 to 205°C	0.2°C	379 mm	0°, 150°, 170°, 190°, 205°C	
MP23929T-69C	195 to 305°C	0.5°C	379 mm	0°, 200°, 235°, 270°, 305°C	
MP23929T-70C	295 to 405°C	0.5°C	379 mm	0°, 300°, 335°, 370°, 400°C	
MP23929T-62F	-36 to 35°F	0.2°F	379 mm	-35°, -15°, 0°, 15°, 32°F	
MP23929T-63F	18 to 89°F	0.2°F	379 mm	20°, 32°, 50°, 70°, 88°F	
MP23929T-64F	77 to 131°C	0.2°F	379 mm	32°, 80°, 95°, 115°, 130°F	
MP23929T-65F	122 to 176°F	0.2°F	379 mm	32°, 125°, 145°, 160°, 175°F	
MP23929T-66F	167 to 221°F	0.2°F	379 mm	32°, 168°, 185°, 200°, 220°F	
MP23929T-67F	203 to 311°F	0.5°F	379 mm	32°, 205°, 240°, 275°, 310°F	
MP23929T-68F	293 to 401°F	0.5°F	379 mm	32°, 300°, 340°, 370°, 400°F	
MP23929T-69F	383 to 581°F	1.0°F	379 mm	32°, 400°, 460°, 520°, 580°F	
MP23929T-70F	563 to 761°F	1.0°F	379 mm	32°, 570°, 640°, 700°, 760°F	

Temperature Test Instruments

Ertco ASTM Precision Thermometers

- Each Supplied with NIST Traceable Documentation
- Test Certificate Indicates Calibration Points and Corrections

The following thermometers are certified and traceable to the National Institute of Standards and Technology (NIST); and are used as standards to calibrate routinely-used thermometers to comply with regulatory agencies and ISO 9000 and Guide 25 Standards.

Transcat Calibration

Transcat Certified Plus Calibration (Min. 3 points)	CALL
Each additional point	CALL

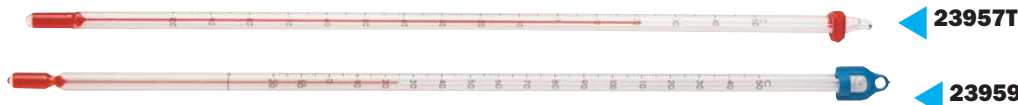
▶ 23931T



Replacement ASTM Thermometers

Order #	Range	Division	Length	Immersion	Calibrated (Certified at)	Price
MP23931T-1	24 to 38°C	0.05°	30 mm	95 mm	0°, 25°, 30°, 37°C	
MP23931T-2	-20 to 110°C	1.00°	305 mm	76 mm	0°, 37°, 56°C	
MP23931T-3	-1 to 51°C	0.10°	460 mm	Total	0°, 10°, 20°, 30°, 37°, 40°, 50°C	
MP23931T-4	-1 to 51°C	0.10°	460 mm	76 mm	0°, 10°, 20°, 30°, 37°, 40°, 50°C	
MP23931T-5	-1 to 101°C	0.10°	610 mm	Total	0°, 10°, 20°, 30°, 37°, 40°, 50, 60°, 70°, 80°, 90°, 100°C	
MP23931T-6	-1 to 101°C	0.10°	610 mm	76 mm	0°, 10°, 20°, 30°, 37°, 40°, 50, 60°, 70°, 80°, 90°, 100°C	
MP23931T-7	-1 to 201°C	0.20°	610 mm	Total	0°, 25°, 37°, 44.6°, 100°, 121°, 140°, 150°, 180°, 200°C	
MP23931T-8	-1 to 201°C	0.20°	610 mm	76 mm	0°, 25°, 37°, 44.6°, 100°, 121°, 140°, 150°, 180°, 200°C	
MP23931T-9	-1 to 151°C	0.20°	475 mm	76 mm	0°, 20°, 37°, 56°, 80°, 100°, 121°, 150°C	
MP23931T-10	30 to 124°F	0.20°	610 mm	76 mm	32°, 40°, 60°, 100°, 120°F	
MP23931T-11	-100 to 50°C	1.00°	305 mm	76 mm	-78°, -20°, 0°, 4°, 37°C	
MP23931T-12	0 to 300°C	2.00°	305 mm	76 mm	32°, 100°, 200°, 300°F	

Ertco Precision Glass Thermometers



- Total and Partial Immersion
- Individually Serialized

- Red Spirit-Filled Thermometers
- Accurate to Within NIST Tolerance

Specifications and Ordering Information

Order #	Range	Divisions	Length (mm)	Immersion	Price
MP23959T-1	-35 to 50°C	1.0°C	305	Total	
MP23959T-2	-20 to 110°C	1.0°C	305	Total	
MP23959T-3	-20 to 150°C	1.0°C	305	Total	
MP23959T-4	-30 to 120°C	1.0°C	305	Total	
MP23959T-5	0 to 230°F	2.0°F	305	Total	
MP23959T-6	-50 to 50°F	1.0°F	305	Total	
MP23959T-7	-100 to 50°C	1.0°C	305	Total	
MP23959T-8	-200 to 30°C	1.0°C	305	Total	
MP23959T-9	-150 to 50°C	1.0°C	305	Total	

Specifications and Ordering Information

Order #	Range	Divisions	Length (mm)	Immersion	Price
MP23957T-1	-35 to 50°C	1°C	305	76 mm	
MP23957T-2	-20 to 110°C	1°C	305	76 mm	
MP23957T-3	-20 to 150°C	1°C	305	76 mm	
MP23957T-4	-10 to 200°C	1°C	305	76 mm	
MP23957T-5	-10 to 260°C	1°C	405	76 mm	
MP23957T-6	-30 to 120°F	1°F	305	76 mm	
MP23957T-7	0 to 230°F	2°F	305	76 mm	
MP23957T-8	-50 to 50°C	1.0°C	305	76 mm	
MP23957T-9	-100 to 50°C	1.0°C	305	76 mm	

Temperature Test Instruments



▲ 23963T Armor with 23961T Thermometer



▲ 23961T

- Precision Thermometers in Nickel Plated Brass Armors
- Thermometers Accurate to Within NIST Tolerances
- Armors Have Slotted Front for Ease of Reading
- Armors Have Ring Top for Suspension Application
- Thermometers can be Teflon® Coated for Further Protection

Nickel Plated Brass Armors Only

Order #	Length	Price
MP23963T-1	150 mm (6")	
MP23963T-2	305 mm (12")	
MP23963T-3	356 mm (14")	
MP23963T-4	405 mm (16")	
MP23963T-5	460 mm (18")	
MP23963T-6	610 mm (24")	

Teflon is a registered trademark of E. I. du Pont de Nemours and Co.

These instruments are similar to the SAMA general purpose thermometers. They are mounted in nickel plated brass armor to withstand rough handling and shock during use. They are made with flat tops, and can easily be inserted or removed from the armor without tools. The armor has ring tops for suspension when necessary. They are supplied in yellow back for greater legibility, and are accurate to within NIST tolerances.

Specifications and Ordering Information

Thermometer w/ Armor Order #	Price	Replacement Thermometer Only Order #	Price	Range	Division (degree)	Length (mm)	Immersion (mm)
MP23961T-1		MP23961T-1R		-35 to 50°C	1.0°C	305	76
MP23961T-2		MP23961T-2R		-20 to 105°C	1.0°C	305	76
MP23961T-3		MP23961T-3R		-20 to 150°C	1.0°C	305	76
MP23961T-4		MP23961T-4R		-2 to 150°C	0.5°C	355	76
MP23961T-5		MP23961T-5R		-2 to 205°C	1.0°C	355	76
MP23961T-6		MP23961T-6R		-2 to 260°C	1.0°C	355	76
MP23961T-7		MP23961T-7R		-2 to 315°C	1.0°C	405	76
MP23961T-8		MP23961T-8R		-2 to 400°C	1.0°C	405	76
MP23961T-9		MP23961T-9R		-30 to 120°F	1.0°F	305	76
MP23961T-10		MP23961T-10R		0 to 220°F	2.0°F	305	76
MP23961T-11		MP23961T-11R		0 to 300°F	2.0°F	305	76
MP23961T-12		MP23961T-12R		30 to 300°F	1.0°F	355	76
MP23961T-13		MP23961T-13R		30 to 400°F	2.0°F	355	76
MP23961T-14		MP23961T-14R		30 to 500°F	2.0°F	355	76
MP23961T-15		MP23961T-15R		30 to 600°F	2.0°F	405	76
MP23961T-16		MP23961T-16R		30 to 750°F	2.0°F	405	76

Ertco SAMA High Precision Glass Thermometers

▲ 23971T total immersion

▲ 23971T 76 mm immersion

- Specifications Approved by SAMA with NIST Cooperation
- Specifications Approved by ASTM Subcommittee E20-05
- Specifications Accepted by American National Standards Institute
- SAMA Thermometers are Recognized as a National Standard
- SAMA Thermometers Meet NIST Requirements for Accuracy
- SAMA Thermometers are Individually Serialized

Specifications and Ordering Information

Order #	SAMA No.	Range	Divisions	Length (mm)	Immersion	Price
MP23971T-1	—	-35 to 50°C	0.1°C	610	Total	
MP23971T-2	CT40	-1 to 51°C	0.1°C	460	Total	
MP23971T-3	CT45	-1 to 101°C	0.1°C	610	Total	
MP23971T-4	CT50	-1 to 201°C	0.2°C	610	Total	
MP23971T-5	—	30 to 120°F	0.2°F	610	Total	
MP23971T-6	FT40	30 to 124°F	0.2°F	460	Total	
MP23971T-7	FT45	30 to 214°F	0.2°F	610	Total	
MP23971T-8	FT50	30 to 394°F	0.5°F	610	Total	
MP23971T-9	CP40	-1 to 51°C	0.1°C	460	76 mm	
MP23971T-10	CP45	-1 to 101°C	0.1°C	610	76 mm	
MP23971T-11	CP50	-1 to 201°C	0.2°C	610	76 mm	
MP23971T-12	FP40	30 to 124°F	0.2°F	460	76 mm	
MP23971T-13	FP45	30 to 214°F	0.2°F	610	76 mm	
MP23971T-14	FP50	30 to 394°F	0.5°F	610	76 mm	

Transcat Certified Plus Calibration (Min. 3 points)	CALL
Each additional point	CALL

Ertco Precision Spirit-Filled Glass Thermometers

- Red Spirit-Filled Thermometers in Metal Pocket Case with Pocket Clip
- Accurate to NIST Tolerances
- Refills Available—See Chart Below
- Individually Serialized



◀ 23973T-1



◀ 23975T-1

Specifications and Ordering Information

Order # with Case	Price	Order # Refill Only to Fit Case	Price	Range	Divisions	Length (mm)	Immersion
MP23973T-1		MP23974T-11		+30 to 120°F	1°C	165	Total
MP23973T-2		MP23974T-12		-30 to 120°F	2°C	165	Total
MP23973T-3		MP23974T-13		0 to 220°F	2°C	165	Total
MP23973T-4		MP23974T-14		-35 to 50°C	1°C	165	Total
MP23973T-5		MP23974T-15		-15 to 105°C	1°C	165	Total
Same as above except in open-face armor							
MP23975T-1		MP24974T-11		+30 to 120°F	1°C	165	Total
MP23975T-2		MP24974T-12		-30 to 120°F	2°C	165	Total
MP23975T-3		MP24974T-13		0 to 220°F	2°C	165	Total
MP23975T-4		MP24974T-14		-35 to 50°C	1°C	165	Total
MP23975T-5		MP24974T-15		-15 to 105°C	1°C	165	Total