

High-Performance Readout Pyrometers

With Parallax Mirror Display

7000 Series
Starts at
\$999



- ✓ Self-Powered
- ✓ Taut Band Mechanism Standard
- ✓ Phenolic Fronts
- ✓ Glass Windows
- ✓ Proven Reliability
- ✓ Accurate Measurement and Display
- ✓ Wide Selection of Ranges
- ✓ 3 Choices of Mounting: Front-Panel, Bezel, or Bench Stand

OMEGA® Series 7000 meters have thermocouple ranges calibrated for 10 Ω external resistance and are supplied with an adjustable 10 Ω resistor for use with thermocouples of lower resistance.

Specifications

Accuracy: $\pm 2\%$
Tracking: None
Balance: $\pm 1\%$
Repeatability (Taut Band Mechanism): $< \frac{1}{4}\%$

*Effects of shock, vibration, humidity and temperature are equal to or better than ANSI C39.1 - 1981.
Safety (dielectric test, leakage and other hazards): instruments are equal to or better than ANSI C39.5 - 1974.
The above tolerance limits apply to the standard ranges listed in this bulletin.
Special instruments may vary from these limits. Rated circuit to ground voltage = 80 Vms (1100 peak)*

7035-T-100, \$999, shown smaller than actual size.



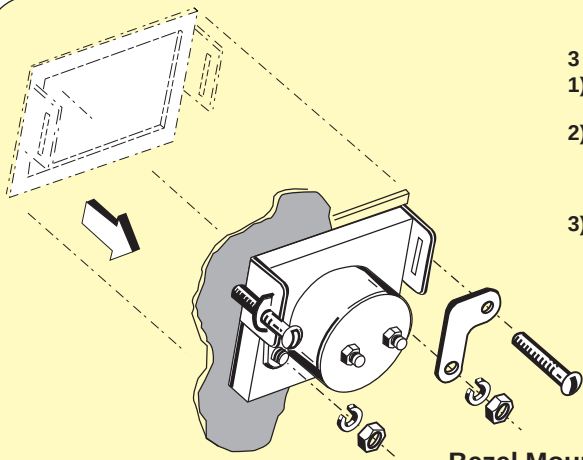
7035-J-300, \$999, shown smaller than actual size.

Thermocouple Specifications

Thermistor-type copper error compensation. Current sensitivity is approximately 4 Ω /mV (250 mA). Automatic bimetal cold-junction compensation for changes in ambient temperature. Mirrored scales with knife edge pointers are standard on all pyrometer models.

Thermocouple Ranges

Standard Ranges		
T/C	°C	°F
T	-130 to 40	-200 to 100
J	-100 to 120	-150 to 250
	-70 to 310	-100 to 600
	-60 to 110	-75 to 225
	0 to 150	0 to 300
	0 to 260	0 to 500
	0 to 430	0 to 800
	0 to 500	0 to 1000
K	0 to 800	0 to 1500
	0 to 1100	0 to 2000
	0 to 1370	0 to 2500
R	0 to 1650	0 to 3000



3 Mounting Styles

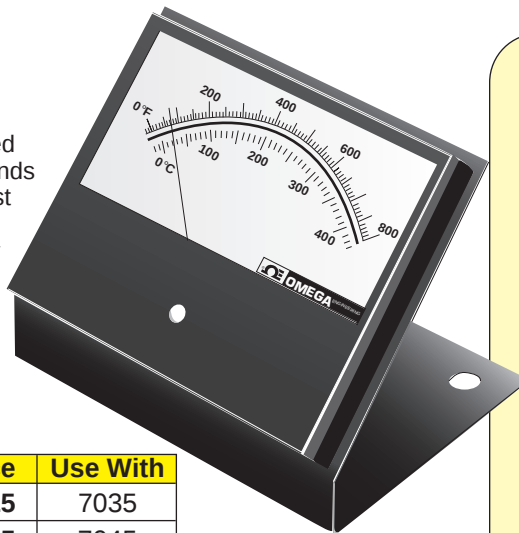
- 1) Front-Panel Mount Standard
- 2) Rear-Panel Mount Using Bezel Mounting Kit (See Below)
- 3) Bench Stands (Models: S-35, S-45, S-55—See Next Page)

Bezel Mounting Kits

Model No.	Price	Use with
7045-BMK	\$34	7045
7055-BMK	51	7055

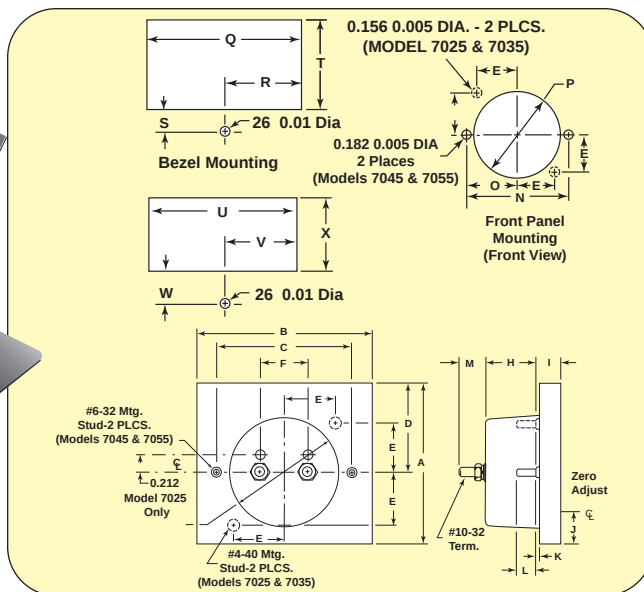
Series 7000 Bench Stands \$15 Each

Heavy-gage anodized aluminum bench stands are available for most pyrometer models. These simplify many laboratory applications. See table for model and part numbers.



Bench Stands

Model No.	Price	Use With
S-35	\$15	7035
S-45	15	7045
S-55	15	7055



Model No.	A	B	C	D	E	F	G	H	I	J	K	L
7035	3.04 max	3.5 max	—	1.53 max	1.125 ±0.01	1.25 ±0.01	2.79 max	1.37 max	0.60 max	0.53 ±0.02	0.02 max	0.56 ±0.02
7045	4.09 max	4.64 max	3.5 ±0.01	2.29 ±0.03	—	1.25 ±0.01	2.79 max	1.37 max	0.60 max	0.77 ±0.02	0.02 max	0.56 ±0.02
7055	4.53 max	5.66 max	4.50 ±0.01	2.695 ±0.02	—	1.25 ±0.01	2.79 max	1.37 max	0.58 max	0.845 ±0.02	0.02 max	0.56 ±0.01
Model No.	M	N	O	P	Q	R	S	T	U	V	W	X
7035	0.675 Max	—	—	2.810 ±0.15	3.718 +0.030 -0.000	1.859 +0.015 -0.000	0.44 ±0.01	2.156 +0.030 -0.000	3.105 ±0.015	1.552 ±0.008	0.76 ±0.01	1.515 ±0.015
7045	0.675 max	3.50 ±0.01	1.750 ±0.005	2.810 ±0.015	4.812 +0.030 -0.000	2.406 +0.015 -0.000	0.63 ±0.01	2.75 +0.03 -0.00	4.205 ±0.015	2.102 ±0.008	0.95 ±0.01	2.125 ±0.015
7055	0.675 max	4.50 ±0.01	2.250 ±0.005	2.810 ±0.015	5.875 +0.030 -0.000	2.937 +0.015 -0.000	0.64 ±0.01	3.156 +0.030 -0.000	5.240 ±0.015	2.620 ±0.008	0.98 ±0.01	2.500 ±0.015

MOST POPULAR MODELS HIGHLIGHTED!

Model 7035 (2% accuracy)		Model 7045 (2% accuracy)		Model 7055 (2% accuracy)		Temperature Ranges		Thermocouple*	ANSI Type
Model No.	Price	Model No.	Price	Model No.	Price	°C	°F		
7035-T-100	\$999	7045-T-100	\$1050	7055-T-100	\$1150	-130 to 40	-200 to 100	Cu/C	T
—	—	7045-T-250	1050	7055-T-250	1150	-100 to 140	-150 to 250	Cu/C	T
—	—	7045-T-225	1050	—	—	-60 to 100	-75 to 225	Cu/C	T
7035-J-250	999	7045-J-250	1050	7055-J-250	1150	-100 to 120	-150 to 250	I/C	J
7035-J-600	999	7045-J-600	1050	7055-J-600	1150	-70 to 310	-100 to 600	I/C	J
7035-J-225	999	7045-J-225	1050	7055-J-225	1150	-60 to 110	-75 to 225	I/C	J
7035-J-300	999	7045-J-300	1050	7055-J-300	1150	0 to 150	0 to 300	I/C	J
7035-J-500	999	7045-J-500	1050	7055-J-500	1150	0 to 260	0 to 500	I/C	J
7035-J-800	999	7045-J-800	1050	7055-J-800	1150	0 to 430	0 to 800	I/C	J
7035-J-1000	999	7045-J-1000	1050	7055-J-1000	1150	0 to 500	0 to 1000	I/C	J
7035-K-1000	999	7045-K-1000	1050	7055-K-1000	1150	-20 to 540	0 to 1000	C/A	K
7035-K-1500	999	7045-K-1500	1050	7055-K-1500	1150	0 to 800	0 to 1500	C/A	K
7035-K-2000	999	7045-K-2000	1050	7055-K-2000	1150	0 to 1100	0 to 2000	C/A	K
7035-K-2500	999	7045-K-2500	1050	7055-K-2500	1150	0 to 1370	0 to 2500	C/A	K
7035-E-225	999	—	—	7055-E-225	1150	-60 to 110	-75 to 225	Ch/C	E
7035-E-300	999	7045-E-300	1050	7055-E-300	1150	0 to 150	0 to 300	Ch/C	E
—	—	—	—	7055-E-500	1150	0 to 260	0 to 500	Ch/C	E
7035-E-800	999	—	—	7055-E-800	1150	0 to 430	0 to 800	Ch/C	E
—	—	—	—	7055-E-1500	1150	0 to 800	0 to 1500	Ch/C	E
7035-R-3000	999	7045-R-3000	1050	7055-R-3000	1150	0 to 1650	0 to 3000	Pt/Pt 13% Rh	R
—	—	—	—	7055-S-3000	1150	0 to 1650	0 to 3000	Pt/Pt 10% Rh	S

Comes complete with operator's manual.

* Cu/C signifies copper vs. constantan. I/C signifies iron vs. constantan.

Ch/C signifies CHROMEGA® vs. constantan.

C/A signifies CHROMEGA® vs. ALOMEGA®.

Ordering Examples: 7035-J-250, high performance readout pyrometer, Type J thermocouple, \$999. 7045-K-1000, high performance readout pyrometer, Type K thermocouple, \$1050.

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