

# Installation & Accessories

## Installation

Ceramic elements can be assembled into probes or potted inside holes in heat sinks and platens. Ceramic cement is recommended for high temperature potting. Epoxy is recommended for intermediate temperatures.

Round elements provide the best time response in round sheaths and holes. Flat thin film elements can be bonded to surfaces.

Elements are calibrated at the end of their leads. The leads have resistances ranging from 0.6 to 2.4  $\Omega$  per foot, so you should connect extension leads as close as possible to the end of the element leads to maintain tolerance.

Minco can supply elements with extension leadwires welded onto the sensor leads. Use the standard models below or contact us for a quote on your custom design.

One final note: Ceramic elements are fragile and can suffer damage or loss of accuracy from improper installation. In many cases, the best alternative is to buy a complete encased probe assembly from Minco. Take advantage of our expertise and equipment for best overall performance and value.

### #8 high temperature cement

#8 comes as a powder in 1 oz. packages. Just add water to form a potting compound rated to 850°C (1562°F).



Extension leads

### Extension leads

All elements are available with factory-welded extension leads insulated with PTFE, polyimide, or mica/glass.

#### Model AC887

**Insulation:** PTFE, FEP tubing over connections

**Maximum temperature:** 200°C (392°F).

Lead AWG	Maximum diameter over lead bundle in inches (mm)		
	2 leads	3 leads	4 leads
22	0.15 (3.8)	0.16 (4.0)	0.18 (4.6)
24	0.14 (3.5)	0.14 (3.5)	0.17 (4.3)
26	0.13 (3.3)	0.14 (3.5)	0.14 (3.5)
28	0.13 (3.3)	0.13 (3.3)	0.13 (3.3)
30	0.11 (2.8)	0.12 (3.0)	0.12 (3.0)

#### Model AC888

**Insulation:** Mica/glass, glass braid over connections

**Maximum temperature:** 550°C (1022°F).

Lead AWG	Maximum diameter over lead bundle in inches (mm)		
	2 leads	3 leads	4 leads
22	0.16 (4.0)	0.20 (5.1)	0.20 (5.1)

#### Model AC889

**Insulation:** Polyimide, FEP tubing over connections

**Maximum temperature:** 200°C (392°F).

Lead AWG	Maximum diameter over lead bundle in inches (mm)		
	2 leads	3 leads	4 leads
22	0.14 (3.5)	0.16 (4.0)	0.17 (4.3)
26	0.13 (3.3)	0.15 (3.8)	0.15 (3.8)
30	0.11 (2.8)	0.12 (3.0)	0.12 (3.0)

#### Model AC101828

**Insulation:** Glass braid, glass braid over connections

**Maximum temperature:** 550°C (1022°F).

Lead AWG	Maximum diameter over lead bundle in inches (mm)		
	2 leads	3 leads	4 leads
27 solid leads	0.10 (2.5)	0.12 (3.0)	0.13 (3.3)

### Extension lead specification and order options

AC887	Model number
Z	Number of leads: Y = 2 leads Z = 3 leads X = 4 leads
26	Lead gauge (AWG)
L	
48	Lead length in inches
AC887Z26L48 = Sample part number	

▼ = STANDARD OPTIONS  
Specifications subject to change