

Blue Lightning

Morgan Blue Lightning Thermocouple Sheaths offer superior protection, excellent service life, quick response and ease of use for aluminum and other non-ferrous melting and holding applications.

Morgan Blue Lightning Thermocouple Sheaths are available with either a 1/2" BSP, 3/4" NPT pipe or without a pipe as a straight ceramic sheath for higher temperature copper applications. The pipe versions are also available as a complete pyrometer assembly to help speed-up installation and reduce labour costs.



Design Feature	Advantage
Robust Design	Long Service Life
Non-Wetting Chemistry	Ease of Cleaning
	Low Dross Build-Up
	No Metal Contamination
Highly Conductive	Rapid Response Times
	Reduced Fuel Usage
	Good Thermal Shock Resistance
Simple Design	Quick Change Over
Integral Coating	No Coating Required
Assembly Available	Minimal Labor and No Downtime

Pyrometer Assembly

The pyrometer assembly comes ready for the tough foundry environment and is inspected and tested prior to shipment. They are specifically designed to provide a quick and technician free change of the existing pyrometer with no additional effort other than plugging in the new pyrometer and stainless steel sheath compensating cable.

Assembled, Tested and Includes:

- Blue Lightning Thermocouple Sheath
- Thermocouple (Type K)
- Horizontal pipe and fittings
- Junction head and connectors
- Stainless sheathed lead (2m)
- Male connector
- Female connector (for connection to furnace)
- Calibration certificate

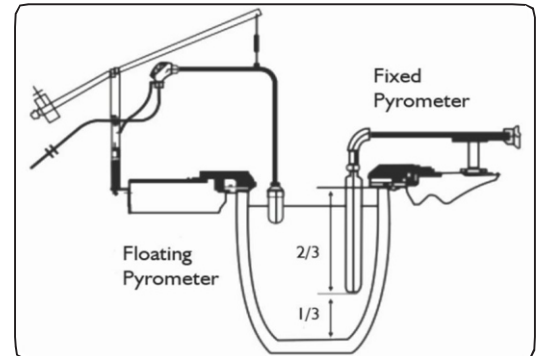
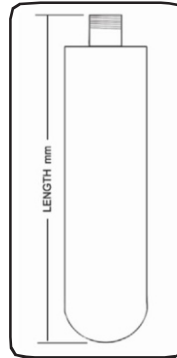


Blue Lightning & Pyrometer Sheath

Choosing The Correct Length

Fixed Pyrometer – A pyrometer is normally recommended to be long enough to measure the temperature 2/3 from the top of the crucible.

Floating Pyrometer – AT50329 Blue Lightning Thermocouples are often chosen to measure 100mm (4”) from the top of the melt.



Floating and Fixed Thermocouple Sheath Mountings

Sizes

Pyrometer Sheath Only	Complete Assembly	Outside Diameter (mm)	Length (mm)	Length (in)	1/2" BSP Pipe	3/4" NPT Pipe	No Pipe 25mm hole
ATS50232	ATS 50232WA	50	232	9	X		
ATS50329	ATS50329WA	50	329	13	X		
ATS50486	ATS50486WA	50	486	19	X		
ATS50639	ATS50639WA	50	639	25	X		
ATS50791	ATS50791WA	50	791	31	X		
ATS 50879	ATS50879WA	50	879	35	X		
ATS50943	ATS50943WA	50	943	37	X		
ATS501096	ATS501096WA	50	1096	43	X		
ATS 5 01420	ATS501420WA	50	1420	56	X		
ATC50329	ATC50329WA	50	329	13		X	
ATC50486	ATC50486WA	50	486	19		X	
ATC50639	ATC50639WA	50	639	25		X	
ATC50791	ATC50791WA	50	791	31		X	
ATC50943	ATC50943WA	50	943	37		X	
ATC501096	ATC501096WA	50	1096	43		X	
ATC 501420	ATC501420WA	50	1420	56		X	