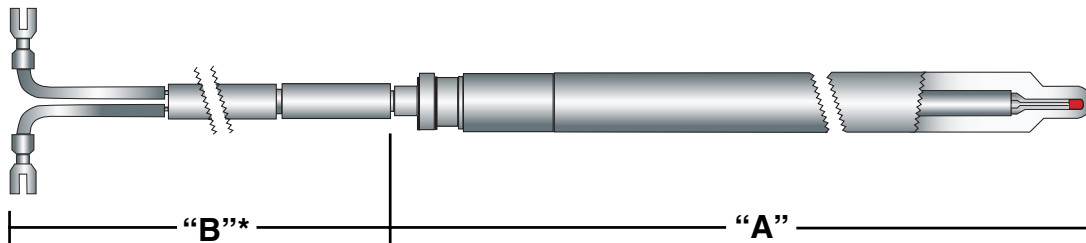
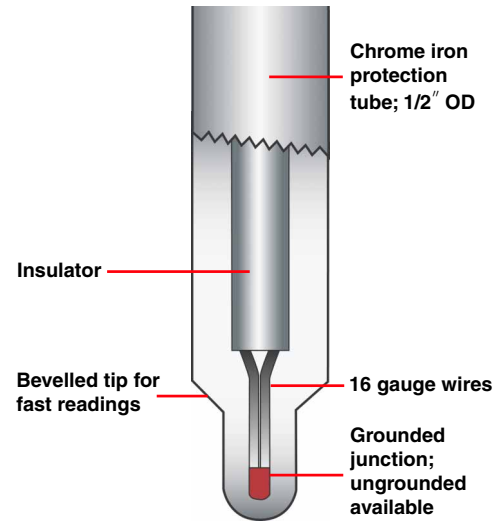




Fast • Accurate • Low cost

- Designed for intermittent temperature sensing up to 2300° F/1255° C.
- For use in molten brass, copper, aluminum and other non-ferrous metals.
- Armored tip construction allows up to 50% more pours per tip.
- 16 gauge Type K or J wires are housed in a bevelled protection tube, providing a rapid responding hot junction. The wires cannot be contaminated from the melt or short circuited by slag.
- Custom lance, wire and tip lengths are available.
- Manufactured with Special Limits Class 1 thermocouple wire with tolerances per ANSI MC96.1 and IEC584.
- The result: higher quality castings at lower cost.



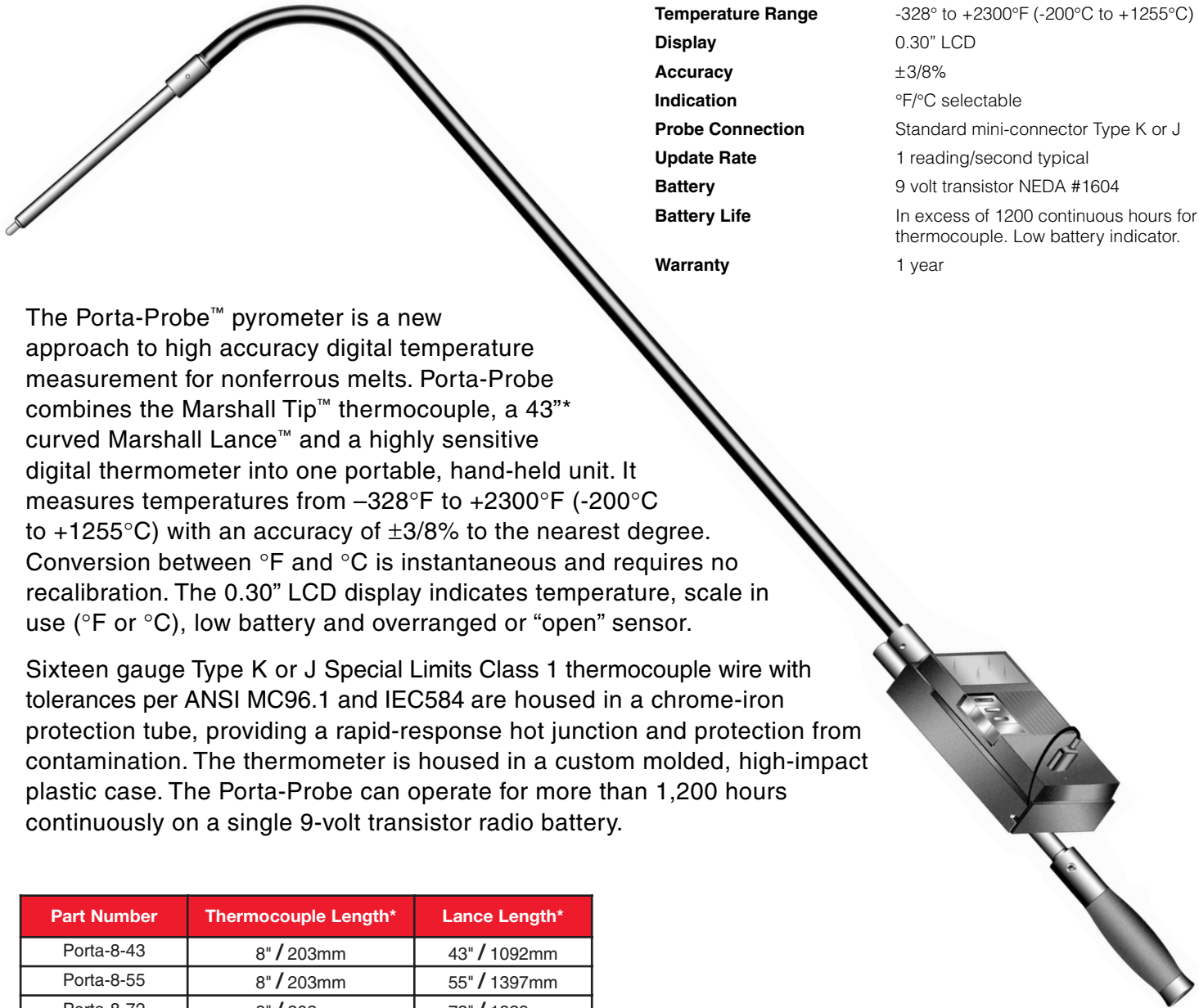
Tip Length "A"	Wire Length "B"	L.H. Marshall Part Number	For use in Lance Length	Curved Lance (90° Bend) Part Number	Straight Lance Part Number
8"/203mm Tips	27 5/8" / 702mm	501-T-8-31	31" / 788mm	501-PGX-31	101-PGX-31
	40 5/8" / 1032mm	501-T-8-43	43" / 1092mm	501-PGX-43	101-PGX-43
	52 5/8" / 1337mm	501-T-8-55	55" / 1397mm	501-PGX-55	101-PGX-55
	69 5/8" / 1768mm	501-T-8-72	72" / 1829mm	501-PGX-72	101-PGX-72
12"/305mm Tips	27 5/8" / 702mm	701-T-12-31	31" / 788mm	501-PGX-31	101-PGX-31
	40 5/8" / 1032mm	701-T-12-43	43" / 1092mm	501-PGX-43	101-PGX-43
	52 5/8" / 1337mm	701-T-12-55	55" / 1397mm	501-PGX-55	101-PGX-55
	69 5/8" / 1768mm	701-T-12-72	72" / 1829mm	501-PGX-72	101-PGX-72
15"/381mm Tips	27 5/8" / 702mm	701-T-15-31	31" / 788mm	501-PGX-31	101-PGX-31
	40 5/8" / 1032mm	701-T-15-43	43" / 1092mm	501-PGX-43	101-PGX-43
	52 5/8" / 1337mm	701-T-15-55	55" / 1397mm	501-PGX-55	101-PGX-55
	69 5/8" / 1768mm	701-T-15-72	72" / 1829mm	501-PGX-72	101-PGX-72
20"/508mm Tips	27 5/8" / 702mm	701-T-20-31	31" / 788mm	501-PGX-31	101-PGX-31
	40 5/8" / 1032mm	701-T-20-43	43" / 1092mm	501-PGX-43	101-PGX-43
	52 5/8" / 1337mm	701-T-20-55	55" / 1397mm	501-PGX-55	101-PGX-55
	69 5/8" / 1768mm	701-T-20-72	72" / 1829mm	501-PGX-72	101-PGX-72
24"/610mm Tips	27 5/8" / 702mm	701-T-24-31	31" / 788mm	501-PGX-31	101-PGX-31
	40 5/8" / 1032mm	701-T-24-43	43" / 1092mm	501-PGX-43	101-PGX-43
	52 5/8" / 1337mm	701-T-24-55	55" / 1397mm	501-PGX-55	101-PGX-55
	69 5/8" / 1768mm	701-T-24-72	72" / 1829mm	501-PGX-72	101-PGX-72
30"/762mm Tips	27 5/8" / 702mm	701-T-30-31	31" / 788mm	501-PGX-31	101-PGX-31
	40 5/8" / 1032mm	701-T-30-43	43" / 1092mm	501-PGX-43	101-PGX-43
	52 5/8" / 1337mm	701-T-30-55	55" / 1397mm	501-PGX-55	101-PGX-55
	69 5/8" / 1768mm	701-T-30-72	72" / 1829mm	501-PGX-72	101-PGX-72

*Red/yellow or green/white color coded. Custom wire lengths and thermocouple sizes are available.



Thermometer Specifications

Temperature Range	-328° to +2300°F (-200°C to +1255°C)
Display	0.30" LCD
Accuracy	±3/8%
Indication	°F/°C selectable
Probe Connection	Standard mini-connector Type K or J
Update Rate	1 reading/second typical
Battery	9 volt transistor NEDA #1604
Battery Life	In excess of 1200 continuous hours for thermocouple. Low battery indicator.
Warranty	1 year



The Porta-Probe™ pyrometer is a new approach to high accuracy digital temperature measurement for nonferrous melts. Porta-Probe combines the Marshall Tip™ thermocouple, a 43"* curved Marshall Lance™ and a highly sensitive digital thermometer into one portable, hand-held unit. It measures temperatures from -328°F to +2300°F (-200°C to +1255°C) with an accuracy of ±3/8% to the nearest degree. Conversion between °F and °C is instantaneous and requires no recalibration. The 0.30" LCD display indicates temperature, scale in use (°F or °C), low battery and overranged or "open" sensor.

Sixteen gauge Type K or J Special Limits Class 1 thermocouple wire with tolerances per ANSI MC96.1 and IEC584 are housed in a chrome-iron protection tube, providing a rapid-response hot junction and protection from contamination. The thermometer is housed in a custom molded, high-impact plastic case. The Porta-Probe can operate for more than 1,200 hours continuously on a single 9-volt transistor radio battery.

Part Number	Thermocouple Length*	Lance Length*
Porta-8-43	8" / 203mm	43" / 1092mm
Porta-8-55	8" / 203mm	55" / 1397mm
Porta-8-72	8" / 203mm	72" / 1829mm
Porta-12-43	12" / 305mm	43" / 1092mm
Porta-12-55	12" / 305mm	55" / 1397mm
Porta-12-72	12" / 305mm	72" / 1829mm

*Custom thermocouple and lance lengths are available.



L. H. Marshall Company

270 West Lane Ave. • Columbus, OH 43201 • U.S.A.
 Phone: 800-THERMOC (800-843-7662) • (1) 614-294-6433 • Fax: (1) 614-294-0297
 www.LHMarshall.com • Email: info@LHMarshall.com