

CARBONSEER™, CARBONSEER XS™ HEAT TREAT OXYGEN PROBE SERIES



EXPANDED LINE-UP OF INDUSTRY WORKHORSE

For more than 25 years, the CARBONSEER™ series has been one of the heat treating industry's workhorses. Long appreciated for its durability, ease of installation and mechanical maintenance-free design, CARBONSEER™ probe is the natural choice for high carbon atmospheres and furnaces that run a wide range of carbon levels.

The new addition to the expanded line-up of the popular CARBONSEER™ series includes the CARBONSEER XS™, an affordable rugged sensor engineered specifically to operate at carbon levels above 1% and into saturation.

UPC-Marathon (UPC) leads the industry in the certification and comprehensive testing of its probes, maintaining a standard of excellence for every UPC probe sold and shipped. Test results are included with every probe order, including electrical resistance (Kilo-ohms), response time, output deviation from average, average output at 1700°F (927°C), and leakage.

SPECIFICATIONS

MODEL	THERMOCOUPLE				LENGTH		SHEATH DIA.	
CARBONSEER™	K	S	R	-	20.5-45.4"	520-1155 mm	1.0"	25.4 mm
CARBONSEER XS™	K	S	R	-	20.5-33.6"	520-855 mm	.84"	21.34 mm

TEMPERATURE RANGE: 1300-1800°F (700-982°C)

ACCESSORIES

Accessories are also available, including probe conditioning systems, mounting flanges, and redundant probe control solutions.

→ REFERENCE AIR & BURN-OFF SYSTEM



→ MOUNTING FLANGE



A MUST-HAVE ACCESSORY!

→ PROBE BUDDY™ OXYGEN PROBE SIMULATOR & TESTER

Probe Buddy™ is a smart testing device that checks the integrity and health of an oxygen probe from UPC and other manufacturers. It is also used to imitate the output signals of a working probe to check the scaling and operation of the process control system.



UPC-MARATHON

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TOUGHNESS

Accuracy is only good if a probe can withstand the toughest of environments. Frequent probe replacement or service simply costs the customer money. The advanced design of the CARBONSEER™ series makes it thermally and mechanically tougher than the traditional first- and second-generation probes, enabling quick installation and removal.

SERVICE LIFE

Electrolyte failure is the most common cause of conventional probe breakdowns. The CARBONSEER™ series uses a new electrolyte technology that is free of a eutectic seal and is thermally shock resistant, eliminating this mode of failure.

COMPATIBILITY

Designed to easily replace all other oxygen probes in an existing system and fully compatible with all furnace controller brands.

WARRANTY

- The CARBONSEER™ probe series is covered by a 12-month warranty from the date of installation.
- Fast service turnaround is guaranteed for all warranty repairs.
- Probe failure analysis is available upon request.

COST

By replacing precious metals used in conventional probes with heat-resistant metal alloys and adopting a streamlined yet efficient design, the CARBONSEER™ achieves a decreased purchase cost while significantly enhancing performance. A low initial purchase price, a 1-year use warranty, and rugged construction contribute to substantial savings.

Special Features

- 1 Available with optional compression fitting to adjust insertion depth
- 2 Any one-inch NPT pipe thread can be used to mount the probe in a furnace wall.
- 3 The CARBONSEER™ probe series has a 12-month usage warranty.

SCAN TO REGISTER

Probes are covered by Usage Warranty as indicated from date of installation. Usage warranty is not effective until your probe is registered, and only if installation is made according to instructions supplied.

