



Awarded Multi Patents

- U.S. Patent No.4,588,493
- European Patent Specification Number 0 176 313 B1 United Kingdom, Belgium, France, Germany, and Italy
- Japanese Letters Patent No. 2007432

SECOND GENERATION

The AccuCarb® carbon probe is a “second generation” probe that was inspired by previous experience from the design manufacturing of “first generation” probes and their limitations. The AccuCarb® probe is the result of extensive research and developmental testing. This probe represents a major breakthrough in probe design and has patented features.

ACCUCARB® ADVANCED

AccuCarb® Advanced is specially designed for thermal toughness and can be installed and removed from a hot furnace in one-quarter of the time of conventional carbon sensors.

TuffAlloy™ sheath resists corrosion and lasts up to 3x longer than RA330



TSR electrolyte for thermal shock resistance allowing quick (<5 minute) installation and aggressive burn-off flow



ACCURACY

In a multiple probe installation, the AccuCarb® was determined to be more accurate, by carbon shim analysis, than other commercially available probes.

The accuracy of any carbon probe depends upon many factors. Three of the most important requirements are:

1. The electrodes must not impede the flow of the atmosphere to the electrode-electrolyte interface
2. The electrodes must act as reversible oxygen electrodes
3. The electrodes must not alter the composition of the gas

Compare other probes to the AccuCarb® and ask yourself, "How is this carburizing gas getting to the electrode-zirconia electrolyte interface?"



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 AccuCarb® make it thermally and mechanically tougher than traditional first and second generation probes; meaning it can be installed and removed quickly.



SERVICE LIFE

In conventional probes the two most common modes of failure are electrode and leadwire failure. The AccuCarb® uses a patented heat resistant alloy electrode welded to a metal sheath, which acts as a leadwire. Failure of these components is virtually eliminated.



COST

By replacing precious metals used in conventional probes with heat resistant metal alloys, by simple and effective design, the purchase price is lowered and performance is significantly improved. Low initial purchase price, 1 year use warranty, rugged construction and rebuildable features result in significant savings.

Special Features

1. Type K sheathed thermocouple standard at no charge.
2. Adjustable insertion depth allows one probe to fit ALL furnaces. This reduces your replacement parts inventory.
3. Any one-inch NPT pipe thread can be used to mount the probe in a furnace wall.
4. The AccuCarb® has a 12-month usage warranty. After the warranty period, the probe can be rebuilt at a competitive fixed price.



COMPATIBILITY

Designed to easily replace original AccuCarb® installations and other "first generation" probes in existing systems.



WARRANTY

- The AccuCarb® probe series is warranted for a period of 12 months from the time of installation.
- 24-hour service turnaround is guaranteed for all warranty repairs.
- Probe failure analysis is available upon request.



REBUILD POLICY

- United process Controls offers the industry's most comprehensive rebuild program
- 24-hour turnaround service on most popular models
- 6 month comprehensive warranty
- Competitive fixed price for easy maintenance budget

MODEL # AND DESCRIPTION					
Part No.	T/C Type			Length	
AA620	-	K	S R	20"	
AA626	-	K	S R	26"	
AA632	-	K	S R	32"	

CHINA +86 10 8217 6437 | FRANCE +33 3 8148 3737 | GERMANY +49 7161 94888 0 | POLAND +48 32 296 66 00 | USA +1 513 772 1000