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MEASURE. CONTROL. RECORD.

HEAT TREATMENT FURNACE CONTROL PRODUCTS,  
SYSTEMS AND SERVICES.  
**NEWS BULLETIN WEEK 42**

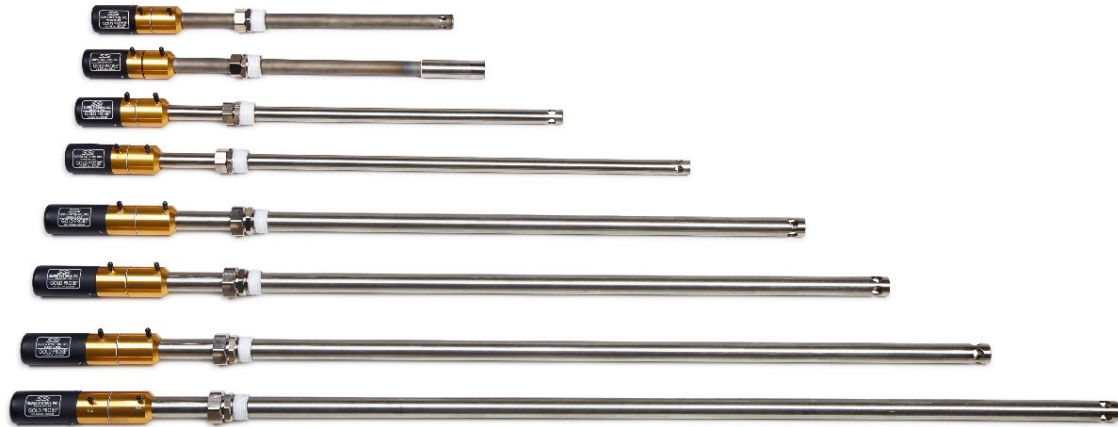


THIS WEEK WE FOCUS ON:

**Gold Probe XL / CeraGold Probe /**  
**What we learned on our trip to SSI HQ in the USA**

**Gold Probe XL - Heavy Duty Long Probe  
for Pit Furnace Applications**

There are certain applications in which the tip of an oxygen probe is inserted further into the hot zone of the furnace than normal. We normally recommend between 50mm and 100mm, but sometimes up to 300mm might be required. It might be because a pit furnace has a deep lid and fan assembly, so the probe needs to extend down past the active air flow in order to get a stable reading. SSI now offer a larger diameter sheath and modified head design to allow for greater expansion of the sheath. The Gold Probe XL is offered in 900mm, 1000mm, 1200mm and 1400mm lengths.



[Click here for Gold Probe XL Dimensional Drawings](#)

## **CeraGold Probe** **A Gold Probe for Very Hot and Sooty Atmospheres**

Carburising atmospheres which are hotter and more carbon-rich than normal can be very destructive to oxygen probes. The heat and soot in the atmosphere can cause rapid erosion of the nickel chrome alloy, sometimes called "green rot", and the excess soot in the atmosphere can be catalysed out on the nickel on the sheath, causing the sheath to block prematurely and prevent an effective burn off.

**Both of these conditions can be inhibited by our CeraGold coating**, a diffused ceramic surface treatment which effectively prevents free carbon making contact with the surface of the sheath.



[Click here to read more about SSI CeraGold](#)

## **WHAT WE LEARNED ON OUR TRIP TO SSI HQ USA**



Last month, the SSi Management team of MD Matt Cross, Engineering Manager Craig Riordan and Sales Manager Rob Wilcox spent a productive week at the SSI International Sales Meeting and new product launches.

The highlight was undoubtedly the new Matrix range of furnace controllers. In combination with the onboard Matrix Logic Editor and SSi's cHMI interface software, the Matrix range has the power to control every furnace from a simple temperer to a vacuum furnace, to a multi-zone pusher. Having been designed with SSi's renowned simplicity of use and connectivity in mind, the Matrix puts SSi at the forefront of furnace control world-wide.

Please get in touch if you would like to find out more about the  
New Matrix Furnace Controllers

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Thank you for reading this bulletin. Please contact us with any questions.

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