

## **Micronics – Lodge Cottrell - Application Note Approved Release**

**Lodge Cottrell use Micronics PF330 Portable clamp-on Flow Meter to substantially reduce commissioning time and fixed installation costs on large scale pollution control plant for coal fired boilers.**

Lodge Cottrell is a world-leading supplier of large-scale industrial air pollution control equipment. On a project carried out during 2010 they had a requirement to process the ash extracted from their boiler flue gas treatment system by mixing this with water to form slurry suitable for disposal.

The ash is extracted from the flue gas using an Electrostatic Precipitator with the ash collecting in hoppers, which have varying fill rates determined by the extraction process. These hoppers then feed through to mixers where a specific water flow rate is required to achieve the target slurry consistency from the plant. The plant has 32 water lines with pipe sizes ranging from 18 to 1 inch diameter pipe and the Micronics PortaFlo meters were used to accurately measure the water flow rate for the set-up of each mixer section.

The alternative to using the portable meter would have been 32 fixed metering points and as a consequence the use of the portable, clamp-on solution generated substantial benefits in terms of reduced commissioning time - labour and fixed metering point costs, plus the added advantage that the PF330 can be utilised again on other sites with similar requirements.

Having considered various suppliers Lodge Cottrell selected the Micronics - PortaFlo PF330 - Time of Flight - portable flow instrument. Portable clamp-on Ultrasonic flow measurement has clear advantages for commissioning/set-up work and Micronics were selected as the supplier due to a combination of their long-term experience with non-invasive, clamp-on technology, product performance and best value.

Project Manager Nigel Dolphin says “The PortaFlo PF330 has proved to be a valuable tool for commissioning of the plant water flow lines with considerable time and cost benefits over alternative fixed in-line metering points. The PF330 was simple to set-up/use and the flow measurement performance was good. The product has worked well and the customer service and technical support from Micronics has also been good.”

The potential for re-use by Lodge Cottrell on other plant installations with similar requirements is significant and the project has demonstrated the clear benefits available from using portable, clamp-on, ultrasonic flow metering for temporary flow measurement requirements such as commissioning and set-up of water flow lines. For further information call Micronics on 01628 810456, email [sales@micronicsltd.co.uk](mailto:sales@micronicsltd.co.uk) or visit [www.micronicsflowmeters.com](http://www.micronicsflowmeters.com) . For information about air pollution control systems visit [www.lodgecottrell.com](http://www.lodgecottrell.com).

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Note to Editor: For further information or images to support this release call David Leigh on 01579 321750 or email [DBL@leighandersonassociates.com](mailto:DBL@leighandersonassociates.com)