

APPLICATION NOTE

Cleveland Potash

MINISONIC P PORTABLE CLAMP ON ULTRASONIC FLOWMETERS - FROM ULTRAFLUX

BACKGROUND:

Cleveland Potash is a mine in the Northeast that produces potash for the fertilizer industry. The mine is 1 km deep and stretches end to end for 15km.

THE PROBLEM:

As with any deep mine water ingress is an ongoing battle requiring constant pumping out of the infiltration flows. Pumps have to be maintained and there has to be a spare pump in reserve in case of pump failures. The pipework itself is an extra heavy weight schedule suitable for >100 bar pressure as the liquid head is >1000m. The fluid being pumped is a Potash Brine solution and the liquid density is far greater than that of water.

FLOWLINE'S METERING SOLUTION:

The ULTRAFLUX MINISONIC P Portable flowmeter fitted the bill. Designed to clamp on to the outside of a pipe, the meter can be used on pipes from 10 mm 3300mm dia depending on the sensors selected and the application requirements. It can be used on a whole range of liquids, from pure water, fuel and refrigerants to brines and sludge's and solid laden liquids. It is designed to suit a more conservative pocket and offers a digital display of flow rate and total, with industry standard outputs if logged flows are required. It comes with free software which is really easy to use, and when used with the meter, the software will automatically export data to excel and draw a graph.



Further Information



For Further information on the PORTABLE range of Clamp on Ultrasonic Flowmeters contact Flowline on 020 8207 6565

www.flowline.co.uk
sales@flowline.co.uk

EQUIPMENT DESCRIPTION:

EQUIPMENT SPECIFICATION:

MINISONIC P - pipe i. d. up to 3300 mm.

A massive 40 h battery life
Very light weight at 850g, and it floats!!

Ingress Protection IP 67

*New Measurement Technology 'ESC' (or Echo Shape Control), this is an automatic function, essentially an Ultrasonic Auto-focus, which offers the warranty of quick, sure and accurate flow measurement.

*Measurement Resolution. The new meter has a resolution of 0.1ns, at least three times better than other leading manufacturers.

*Problem applications. New probes are available using a crystal matrix composite. This technology increases signal strength by 2-4 times, reduces pipe noise and improves the acoustic signal.

LCD display, rate, total and diagnostic messages - programmable backlight

Dynamic gain up to 89 dB

flowline
SPECIALISTS IN FLOW MEASUREMENT

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