



# Ash Probe & AshGraffix



**AshGraffix, together with the Ash-Probe, is a portable instrument for accurately measuring the ash content of piles, wagons or trucks of coal in real time.**

The Ash Probe is inserted into the coal pile and connected to the lightweight AshGraffix touch-screen display unit. Within a minute, the ash content of that area will have been measured and displayed. Taking measurements from several key areas of the pile or truck will give an accurate overall ash content.

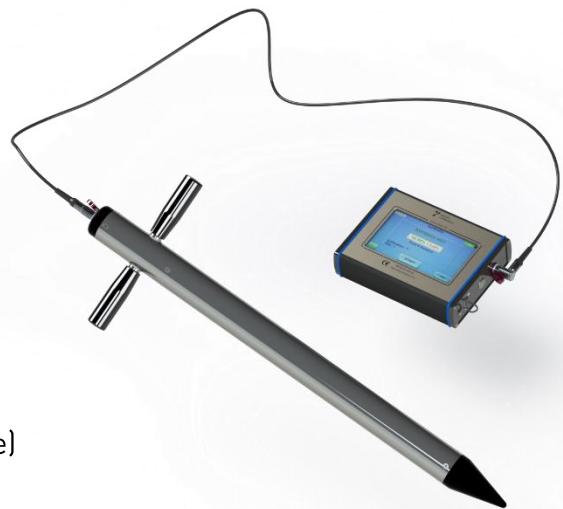
The unit measures the natural gamma radiation emitted by the impurities that make up the ash content of coal (Thorium, Potassium, etc.).

**It does not require its own radiation source and is therefore perfectly safe and requires no special training to use**

The unit is calibrated to the source(s) of coal to be measured and can then measure the accuracy of the ash content to around 1% and in some cases to as much as 0.5%.

## Features

- High resolution colour touch-screen display
- Multi language user interface with more languages being added all the time.
- Can operate for a full working day on a single charge.
- Measurement accuracy: better than 1% ash content
- Data can be written to a USB memory stick for offline analysis
- Data can be uploaded to a PC using the supplied software and cable (Windows XP/7/8/8.1/10 compatible)
- Environmental rating: IP65
- Operating Temperature Range: -20°C to +50°C
- Stores data for up to 99 piles (99 samples each) or 600 wagons/trucks (12 samples each)
- Stores up to 100 sets of calibration coefficients



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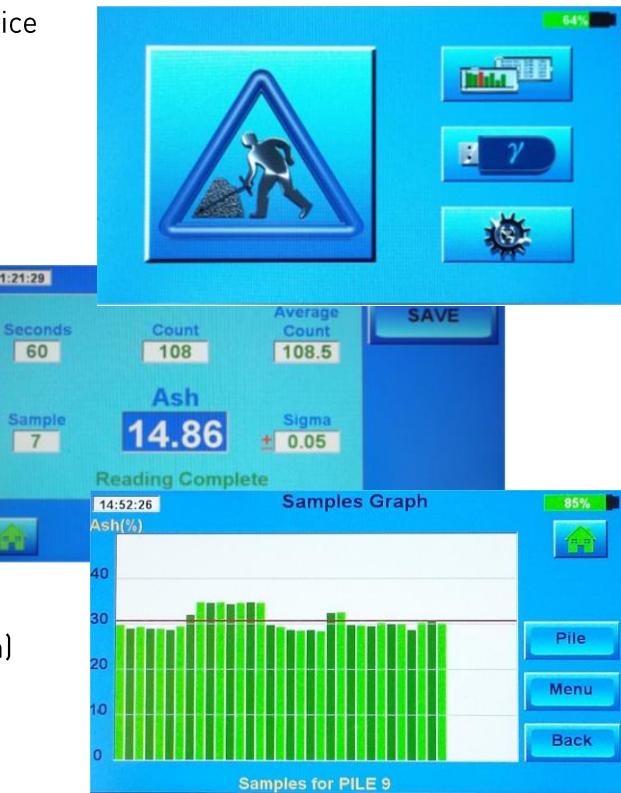
## Benefits

- Much quicker than conventional sampling and analysis
- More information on ash and ash variability
- Can blend more accurately, leading to a premium product
- Can dispatch more quickly, reducing train standing time
- Can increase saleable tonnage (increased yield), leading to increased revenue
- Can reduce discard, leading to reduced costs
- Reduced sampling effort, leading to reduced costs
- Can reject inferior coal deliveries or negotiate lower price

## Specifications

- Display Unit Dimensions: 220mm x 160mm x 50mm
- Display Unit Weight: 2kg
- Screen : 7" TFT Touch-screen
- Screen Resolution: 800 x480 pixels
- Battery: NiMh (Nickel metal hydride)
- Battery Charger: 110 to 250VAC, 50-60Hz output
- Time for full charge: 4 hours
- Typical Operating Time: 16 hours
- Probe Weight: 4kg
- Overall Probe Dimensions: 760mm x 52mm diameter
- Probe to Display Unit Cable Length: 3m (option for 10m)
- Accuracy: Better than 1%
- Environmental Protection: IP65
- Minimum Sample Measurement Time: 60 seconds
- Maximum Sample Measurement Time: 600 seconds
- Number of Sets of Calibration Coefficients: 100
- Number of Piles: 99 (with 99 samples each)
- Number of Trucks: 600 (with 12 samples each)
- Computer Interface: USB cable (supplied)
- Computer Software: Ash Probe Utility Program (Windows XP/7/8/8.1/10 compatible)
- Data Export: USB memory stick or internal flash memory (CSV format spreadsheet files)
- Optional cold climate cables available on request

Specifications are subject to change without notice.



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