

The LabAsh



The **LabAsh** is a laboratory instrument providing a quick measurement of the ash content of a crushed sample of coal. It is easy to use and provides accurate results within a few minutes.

General Description

The **LabAsh** comprises two parts: a Sample Measuring Chamber and a Display Unit.

The Sample Chamber is a substantial lead walled cylinder containing a scintillation crystal and associated electronics. The crystal is positioned vertically in the centre of the chamber so that when a special beaker containing the coal sample is lowered into position the crystal is evenly surrounded by the sample.

The mains powered Display Unit provides the user interface and is housed in a case suitable for desk or bench top operation.



Measuring Chamber and Display Unit

Main Features

- Simple to use
- Accurate results within a few minutes (<5 minutes)
- Stores up to 300 sample measurements
- Facility to include: data, batch and sample name into each record
- Easy to calibrate on site using normal production samples
- Can store up to 9 different calibrations for multi-source applications
- Can download data to a computer

There are no radioactive sources - The LabAsh uses Natural Gamma Technology

Accuracy

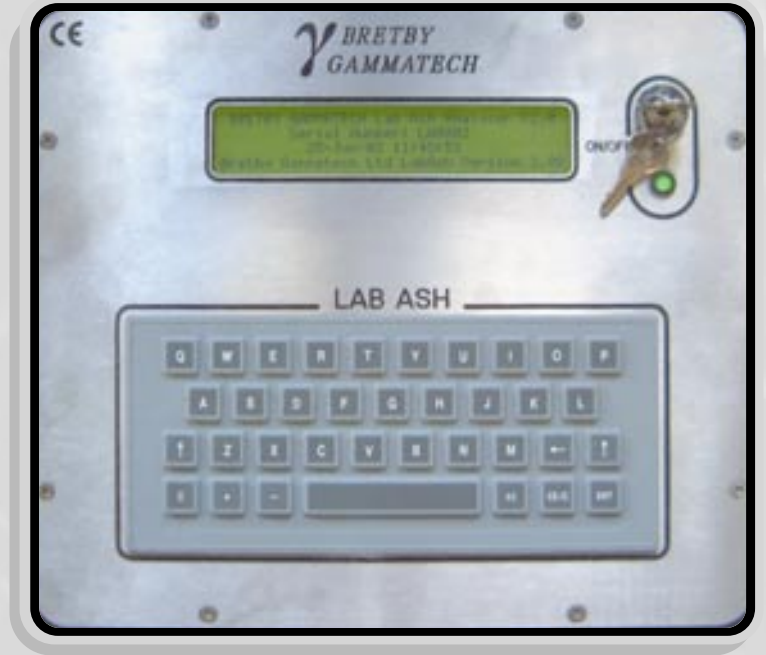
Applications at several sites have shown that unbiased results with a precision of 0.65% ash can be achieved in less than 5 minutes.



Sample Beaker

Applications

Any coal where a crushed sample is available, e.g. final product, psf, washed fines, imported coal etc.



LabAsh Display Unit



LabAsh in use

Benefits

- Quick ash results from the hourly samples (less than 5 minutes compared with at least 2 hours to obtain the in-house lab analysis or several days for an off-site laboratory)
- Faster and therefore more accurate control of quality
- Reduce in-house sample analysis from hourly to split shift leading to less effort by laboratory staff thereby achieving lower costs
- Provides an independent check on both in-house and commercial sample analyses - enabling precision of all measurement methods to be assessed under ISO15239.

Physical Specifications

Sample Measurement Chamber

Height: 430mm

Diameter: 300mm

Weight: 140Kg

Sample Measurement Beaker

Height: 238mm

Diameter: 247mm

Weight: 0.65kg

Sample weight: ~10kg (crushed coal)

Display Unit

Width: 305mm

Depth: 260mm

Height: 105mm (max)

Weight: 5.1kg

Mains powered:240VAC (110VAC optional)

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