

APPLICATION NOTE

Nuclear Industry #2700939

POWER INDUSTRIES

OIL & GAS INDUSTRIES

PROCESS INDUSTRIES

Carbon14, Tritium and Sulphur Sampling

Customer/End User: EDF/MAGNOX

Application: Air Monitoring

Scope: To Provide Environmental Monitoring using Total Oxidation Units (TOU's)

Product: Total Oxidation Units (TOU's)

Trolley-mounted single (air) or dual (air and CO₂) stream sampling units for use in carbon 14, tritium and sulphur monitoring processes. The units oxidise the sample gas within a reaction tube in a thermally controlled environment before flowing through bubbler sample bottles. Sample pressure, temperature, flow rates and flow total are displayed on the front facia. The units incorporate automatic furnace temperature control to any set point up to 1200degC with over temperature protection systems.

The Reaction Tube:

AMS supply glass reaction tubes which have been approved by EDF and Magnox. These are an improved design which is a direct replacement for the previously supplied Severn Science product.

The three section glass chamber construction provides an un-restricted flow path and stable environment for the gas mix and combustion process.

The inlet section is fitted with a sintered surface to maximise contact time for efficient combustion. The device is equipped with a high efficiency heat sink to minimise heat loss.

The TOU framework case is designed for ease of maintenance, accessibility and portability.

For further product information and sales please **contact the AMS sales team:**



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