AVCRAY ANALYTICAL INSTRUMENTS

Portable Analyzer 711

Gas purity is a critical life safety issue, making monitoring for potentially explosive levels essential.

The result of AAI's development work is an extremely accurate, robust, and stable analyzer that eliminates the issues of drift and need for frequent recalibration seen in other thermal conductivity systems.

The portability of the unit eliminates installation costs and makes it easy to move between Use the scene. There are no moving parts to wear out, no filters to change, and no traps to clean. The PA711 is virtually maintenance free. A simple periodic calibration is all that is needed to assure years of trouble-free service.

The PA711 range of analysers accurately measure the changes of one constituent in binary or pseudo-binary gas mixtures (ie, mixtures in which only one constituent changes).

Examples include hydrogen, carbondioxide, argon, helium and various halogenated hydrocarbons such as the Freons. Almost any single constituent of a gas mixture can be measured, providing its thermal conductivity differs from that of the other components. Precise linearization for the gas mixtures as H2, He, CO2, CH4 in N2 or Ar and N2 in Ar on board

The whole instrument is housed in a tough co-polymer waterproof case with carrying handle. A built-in sample pump means that samples can be drawn from low-pressure sources or can be naturally aspirated. An integral needle valve and flow indicator are used to control the sample flow through the analyser.

MODEL Portable Analyzer 711

Features

• Portable, rugged, lightweight
• Sealed reference cell, no need for a flowing reference support gas
• Uses no consumables and is virtually maintenance free
• Accurate and long term stable thermal conductivity measurement
• Precise temperature control provides optimum accuracy
• Three switch-selectable ranges for easy choice of desired measurement
• Classic 2-point calibration or simple one-gas calibration

Applications

Hydrogenation processes
Fuel cell research
Gas mixing
Air separation
Helium recovery
Chemical engineering monitoring
Turbine generator gas monitoring

Specification

Thermal conductivity ranges:
0 to 1%, 0 to 20%, 0 to 100%,90 - 100%
Gas types: H2,He,CO2,Ar,SF6
Selectable switch
H2 in Air : 90 - 100%
H2 in CO2 : 0 - 100%
Consult AAI for other ranges
Accuracy: +/- 1% of span
Resolution: +/- 0.1%
Speed of response (typical):10s(T90)
Flow Rate:100-500cc/min,300cc nominal
Drift: <0.2%/month
Operating temp: -5-50°C
Power: 12V DC power adapter powered from a 90-264 VAC 47-63 Hz VAC
Gas connections: 1/4' tube, quick release connector
Enclosure: NEMA-4X PET plastic housing
Weatherproof: IP67
Dimensions: Length: 13.1" (334 mm)
Height: 6.1" (155mm)
Width: 11.9" (303 mm)
Weight: 8 lb. (3.6 kg.)

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The given data is only intended as a product description and should not be regarded as a legal warranty of properties or guarantee. In the interest of further technical developments, we reserve the right to make design changes.

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