

THERMAL CONDUCTIVITY GAS ANALYSER BINARY GAS ANALYSER KATHAROMETER



NUCON MODEL 4235P
In Split form - separate
Analyser Flow Module
and Electronics Module
- or in Single Housing, for
both Panel Mounting and
Bench Top applications.

Thermal Conductivity is a basic property of gas related to ability to conduct heat. At one end are gases like Hydrogen and Helium that are good conductors; at other end are Nitrogen, Argon and Carbon Dioxide that do not conduct well. In Reference Channel a pure gas is introduced while the sample channel carries the sample. The signal produced is proportional to the difference in Thermal Conductivity between the two Channels. It is possible to carry out Gas Purity Checks, Mixtures Composition Estimation, and also Safety Monitoring e.g. Oxygen in Hydrogen where it is widely known as Katharometer.



SPECIAL FEATURES

- High Sensitivity TCD
- Transducers from Gow Mac USA
- Flow Monitoring and Control standard features
- Alarm with indicating light and SPDT relay standard feature
- Insensitive to flow rate in operating region
- Simple to operate
- Can be adapted for many uses
- Sturdy construction

SPECIFICATIONS

Range: 0-100.0% Standard; other ranges on request

Power supply: 220 V A.C.

Display: Digital

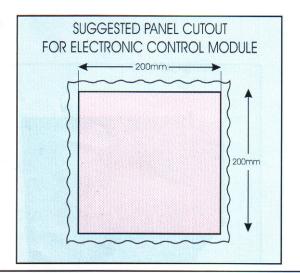
Sample/Reference Gas Pressure: 0.1 to 10.0 kg/cm2

Sample connection: 1/8" Tube connection

Dimensions

Panel Mounting - W 198mm H 198mm D 305mm for control module and W 98mm H 198mm D 305mm for flow module

Suggested Panel Cutout W 200mm H 200mm and W 100 mm H 200mm

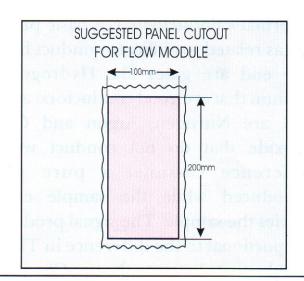


APPLICATIONS

- Hydrogen or Helium Monitoring in Nitrogen, Argon etc.
- Gas Mixtures of all types
- Oxygen in Hydrogen
- Argon Inerting Mixture with H2
- Argon Shielding Mixture with N2
- Helium Breathing Mixtures
- Hydrogen Reducing atm with N2
- Nitrogen Inerting Mixture with H2
- Freon aerosols blending and mixing
- Flue Gas, Fire Protection Protective atmospheres

COMBUSTIBLES MONITORING

MODEL 4235 PP is a special panel mounting version for monitoring Combustibles. Instead of standard Thermal Conductivity Detector a Modified Pellistor Thermal Conductivity Detector is used. Both reference and sample transducers are placed in a single Sample Flow path. While the former gives a standard signal, the latter gives an enhanced signal in the presence of combustibles e.g. Hydrogen. Model 4235 PP can be used to monitor Hydrogen in Oxygen on a range 0-10%. Alarm setting provides a relay trip at preset level and this can control the operating of a load through an appropriate contactor



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