

Technical Datasheet

INTRODUCTION

An external non-methane hydrocarbon cutter provides capability to measure methane only for clients with a standard heated flame ionisation detector (FID).

The Model 320 provides a low cost alternative to "all in one" FIDs with a built in cutter.

Housed in a portable case suitable for inline usage with portable and fixed equipment, this unit is ideal for use with Signal Model 3010 or 3030PM portable FID units. Two modes

of operation allow a reading for either total hydrocarbons or methane only, allowing you to derive a value for non-methane hydrocarbon concentration.

OPERATION

In the methane mode the sample is directed through a heated catalyst. This catalyst oxidises non-methane species of hydrocarbons in the sample. The THC mode bypasses this catalyst to provide a reading for total hydrocarbon. These two modes allow the derivation of a non-methane hydrocarbon by simply deducting the

methane only reading from the total hydrocarbon value.

As a stand alone unit, this cutter is suitable for use with any heated FID to obtain a methane only or non-methane concentration reading.



Specifications:

Converter chamber: Fully heated	Sample flow: 3 Litres/min	Warm up time: Average 60 minutes
Gas contact materials: 316 stainless steel	Filter type: Stainless steel sintered disk	Power: 240 Vac (650W)
Chamber temperature: Factory preset	Average filter pore size: 100 micron	Weight: 6Kg
Temperature control: PID control	Changeover valve: Heated ball valve	
Gas connections: Stainless steel 1/4"	Max inlet THC concentration: 2000ppm propane equivalent	

Every effort has been made to ensure the accuracy of the information contained in this publication. However, Signal's policy of continuous product improvement could possibly result, without notice, in changes being made to the specification as described. Responsibility cannot be accepted for damage, loss or expenses arising as a result. [flarespec/2005/issueA](#)

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