



EI-5 ETHANE IDENTIFIER

The EI-5 Ethane Identifier is a portable combustible gas analyzer designed to differentiate between gas distributed by a utility and naturally occurring gas often present in the ground or subsurface structures. Ethane is present in significant concentrations in distributed natural gas but not present in naturally occurring gases such as marsh, soil, landfill and sewer gas. This makes ethane an excellent “tracer” in determining the presence of distributed versus naturally occurring gas.

The EI-5 detects and separates the ethane content in a natural gas sample to approximately 20 ppm. Ruggedly constructed for field applications, the EI-5 is relatively unaffected by ambient temperature conditions and will operate approximately 12 hours. Usually, the detection and analysis of ethane is accomplished in a laboratory by using a gas chromatograph. There are, however, specific occasions when it is impossible or impractical to “trap” a sample and send it to a laboratory. The EI-5 fulfills this requirement with quick, accurate indications, right in the field.

Ethane is stripped-out at the gas fields or scrubbing centers and diverted to the petrochemical industry. However, residual ethane still remains as the “tracer or benchmark” for the identification of natural gas, but requires a more sensitive instrument for detection. Heath has recognized this problem, and consequently, is offering an instrument by combining semiconductor and chromatographic technology in a single package. The EI-5 will detect ethane in a 800 ppm sample of natural gas containing 2% ethane by volume.

Features:

- ➔ Detects the presence or absence of ethane in less than 2 minutes
- ➔ Avoid costly and time consuming laboratory tests with this easy to use field instrument
- ➔ Graphical color display
- ➔ Data logging with export capabilities
- ➔ Lightweight, hand-held and self-contained
- ➔ Built-in pump



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DATA FEATURES



Downloaded data utilizing the Easylog software, is displayed in graphical form showing the peak(s) for the different gases in the sample taken. The sample above shows a typical natural gas sample indicating the date and time for each data point.

As seen below, the graph will be recreated in the software and a worksheet will be created listing all the data points from that session.

Ethane Id	Time	Voltage(Volts)	Serial Number
1	2/4/2013 8:49	0.17	1036
2	2/4/2013 8:49	0.17	
3	2/4/2013 8:49	0.17	
4	2/4/2013 8:49	0.17	
5	2/4/2013 8:49	0.17	
6	2/4/2013 8:49	0.17	
7	2/4/2013 8:49	0.17	
8	2/4/2013 8:49	0.17	
9	2/4/2013 8:49	0.17	
10	2/4/2013 8:49	0.1725	
11	2/4/2013 8:49	0.17	
12	2/4/2013 8:49	0.1725	
13	2/4/2013 8:49	0.165	
14	2/4/2013 8:49	0.165	
15	2/4/2013 8:49	0.1675	
16	2/4/2013 8:49	0.165	
17	2/4/2013 8:50	0.165	
18	2/4/2013 8:50	0.1675	
19	2/4/2013 8:50	0.1675	
20	2/4/2013 8:50	0.165	
21	2/4/2013 8:50	0.165	
22	2/4/2013 8:50	0.165	
23	2/4/2013 8:50	0.165	
24	2/4/2013 8:50	0.165	
25	2/4/2013 8:50	0.1625	

Heath Consultants Incorporated operates under a continual product improvement program and reserves the right to make improvements and/or changes without prior notification.



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SPECIFICATIONS

Weight:	1.4 lbs (0.6 kg)
Dimensions,H-W-L:	1.25 x 4.0 x 8.25" 3 x 10 x 21 cm
Carrying Case, H-W-L:	4.5 x 13.5 x 17.5" 12 x 34 x 45 cm
Sensitivity:	16 ppm Ethane or will detect Ethane in a 800 ppm sample of natural gas containing 2% Ethane by volume
Power Supply:	4 "AA" alkaline batteries
Operational Time:	12 hours
Output:	Analog graphical display
Sensor:	Semiconductor type
Sample Rate:	One Second
Sample System:	4' Tygon tubing (1.2M)

ORDERING DETAILS

	HPN
Ethane Identifier 5 Complete	104294
Ethane Identifier 5 - Instrument Only	104293
Carry Case Regular	104305
Probe, 13" Lexan	104304
Valve Assembly (less tubing)	104295
Sensor	104291
Tubing 1/8" x 1/4" per foot	104303
Hydrocarbon Filter	104299
Hydrocarbon Refill Material	104298
30" Brass Probe w /Filter	104297
30" Lexan Probe w / Filter	104296