

VARIOTEC® EGA

Simple to use Ethane Gas Analyzer (EGA) for determining the methane, ethane and propane components of a gas sample



Ethane analysis – Natural gas or swamp gas?

Before making an expensive excavation you need to be sure the gas detected is really emanating from a natural gas pipe and that it is not swamp gas or coming from another gas source.

The **VARIOTEC® EGA** key facts:

- Quick and easy differentiation between natural gas and swamp gas.
- Avoidance of cost and delay associated with sending gas samples to a lab for analysis.
- Special training not required.
- Easy to use ethane analysis process with clear user friendly prompts.
- Measurement reports can be saved and stored on a PC for record keeping.

This analysis utilizes the fact that natural gas contains ethane, but swamp gas does not. Thus, if ethane is detected, it can be concluded that natural gas is present.

During the ethane analysis, the gas sample is always analyzed for the presence of the following three gases:

- Methane CH_4
- Ethane C_2H_6
- Propane C_3H_8



Applications

Application	Gases measured	Gas sensor technique
Ethane analysis	CH, CH_4 , C_2H_6 , C_3H_8 (optional)	Gas-sensitive semiconductor / gas chromatograph

Operation

- Unique and simple to use operating system, with jog dial, soft keys and easy to follow task orientated menu navigation
- Large matrix display with backlight, clearly showing all gas levels
- Rapid charging in 4 hours – More usage time
- Power supply via 4 AA rechargeable or disposable batteries
- On board data logging with PC communication via USB port
- The carrying handle doubles as a clever display stand, allowing versatile positioning and easy carrying

Efficiency

- Simple, task orientated menu structure means new users are up and running with very little training
- No complicated setup required even after extended periods of disuse
- Cost-effective operation thanks to low capital cost, high up time, low maintenance costs, and paperless inspection regimen

Measuring technologies

- Fast and highly-sensitive semiconductor sensor for measuring very low gas concentrations in the ppm range
- Integral gas chromatograph to determining the methane, ethane, and propane components of a gas sample

Approvals

- Explosion protection: TÜV 07 ATEX 553353 X II2G Ex d e Ib IIB T4 Gb Ex , IIC when used with the TG8 carrying bag