

Exclusive Portable Infrared Natural Gas Analyser Series GAS 3100 PNG

The solution to expensive and bulky GC-FID analysers for real time and reliable "on the field" natural gas measurements !



Gas measurements: CH₄% + C_nH_m% + CO₂% + H₂S ppm
Real time calculations: Heating Values, Wobbe Index, N₂%

Configurations

GAS 3140 PNG	CH ₄ + C _n H _m + CO ₂ + H ₂ S + N ₂ + GHV + WBI
GAS 3130 PNG	CH ₄ + C _n H _m + CO ₂ + N ₂ + GHV + WBI
GAS 3120 PNG	CH ₄ + C _n H _m + GHV + WBI

Measurement specifications

Parameters	CH ₄	C _n H _m ⁽¹⁾	CO ₂	H ₂ S
Technology	NDIR	NDIR	NDIR	ECD
Range	0-100%	0-20%	0-5%	0-10ppm
Resolution	0.01%	0.01%	0.001%	0.01ppm
Accuracy	≤2% FS	≤2% FS	≤2% FS	≤3% FS
Repeatability	≤1% FS	≤1% FS	≤1% FS	≤2% FS
Expected Life time	5-7 Yrs	5-7 Yrs	5-7 Yrs	1-2 Yrs

⁽¹⁾ measured as C₂H₆ + C₃H₈ + C₄H₁₀

Unique features

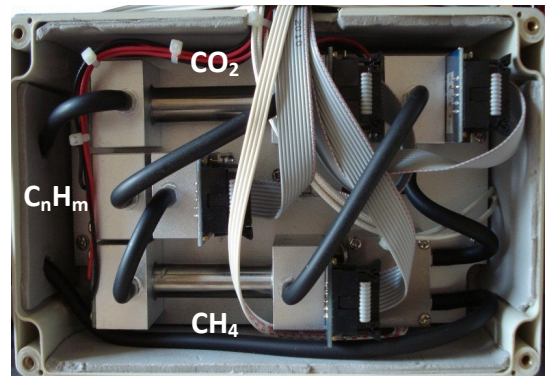
- Portable analyser designed for natural gas quality monitoring
- Reliable real time measurement by NDIR detectors and ECD sensor
- Exclusive NDIR detector for C_nH_m measurement as C₂H₆ + C₃H₈ + C₄H₁₀
- NDIR detectors built in a temperature controlled enclosure
- Operation without carrier gas/ combustion air as needed by GC-FID
- Operation on Li-ion battery with up to 8 hours autonomy
- Large LCD display and easy to use tactile keyboard interface
- Powerful internal gas sampling pump
- External flowmeter and particulate/moisture filter
- Recording function (up to 1500 sets of data, programmable logging rate)
- RS232 COM port for real time communication with external laptop
- High portability : Dimensions: L 380 × D 140 × H 255 mm; Weight: ≤ 6 kg

Standard accessories

- Black nylon carrying and protective bag with shoulder trap, transparent window above the display and front pocket for accessories
- Gas sampling line (2m) with conical probe; Gas venting tubing (2m)
- Power cable and battery charger adaptor
- RS232 cable + USB cable interface + Data software for PC

Optional accessories

- In-line CaCL₂ drying filter
- Gas sampling probe (custom made on request)



Measurement conditions

Analytical gas flow: 0.7-1.2L/min
Gas inlet pressure: 2kPa - 50kPa
Gas outlet pressure: Patm
Gas quality: clean and dry
Response time (T₀₋₉₀): <10s (NDIR) / <30s (ECD)
Warm-up time: 5 min

*Non contractual pictures and specifications
Subject to change without notification
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