cosa+xentaur

Портативный газовый хроматограф COSA Portable BTU

Технические характеристики

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Portable HGC 303
BTU Gas Chromatograph

COSA INSTRUMENT

The Portable Transmitter Solution for **NATURAL GAS ANALYSIS**

- Completely Portable Unit with Convenient Extension Handle
- Perfect for Spot Checks of BTU and Natural Gas Content
- No Analyzer Shelter Required
- Compact & Lightweight Design
- Eliminates Repairs in the Field
- Analysis of 11 Components in 300 seconds
- Calculation of 20 Parameters
- Optional Digital & Analog Outputs
- Foundation Fieldbus and MODBUS Communications

azbil YAMATAKE

The HGC 303 is the world's smallest gas chromatograph for C_6+ analysis of Natural Gas. It digitally publishes 20 derived parameters, such as Calorific Value, Wobbe Index, Specific Gravity, Compressibility, Ratio of Heats, etc.

CE FM APPROVED

Class I Div1 Grps CD, T4

PRE-ENGINEERED NATURAL GAS ANALYSIS

The HGC303 offers pre-engineered analysis and calculations for natural gas monitoring, eliminating the need for any further programming and application work. Hooking up gas connections, power and communications cables is all that is required to get this plug and play transmitter ready to work.

The HGC303 provides a full 11-component C6+ analysis on natural gas with a 300-second cycle time and a repeatability of 0.05% Heating Value. The HGC calculates and digitally transmitts 20 gas parameters according to GPA or ISO Standard, including Upper and Lower Heating Values, Wobbe Index, Specific Gravity, Compressibility and Specific Heat Ratio.

OUTPUT	DATA
PV1	Sum of C6+
PV2	C3H8
PV3	i-C4H10
PV4	n-C4H10
PV5	neo-C5H12
PV6	i-C6H12
PV7	n-C5H12
PV8	N2
PV9	CH4
PV10	CO2
PV11	C2H6
PV12	Real Gross Heat Value
PV13	Gas Density
PV14	Wobbe Index
PV15	Compressibility Factor
PV16	Total of Raw Concentration
PV17	Oven Temperature
PV18	Carrier Gas Temperature
PV19	Lower Heat Value
PV20	Relative Density

LOW MAINTENANCE

The HGC303 is designed to perform reliably in natural gas applications ranging from remote wellheads to gas processing plants, gas transmission and distrivbution points and endusers. The HGC's small and light-weight design facilitates a simple swap-out of the entire analyzer in minutes, rather than requiring maintenance in the field.

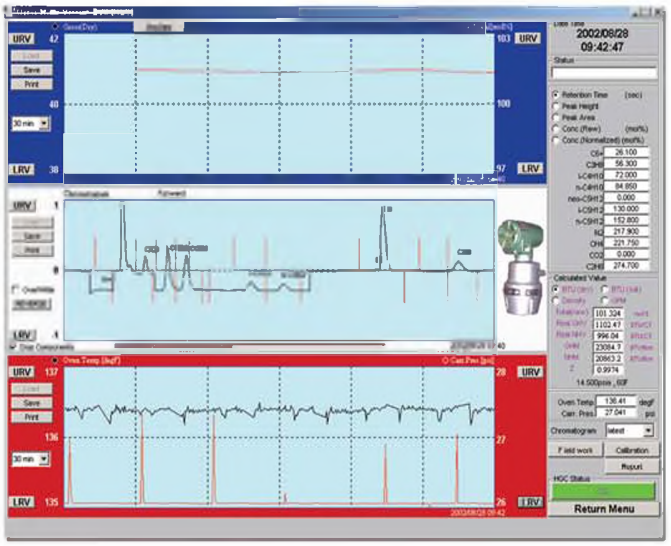
LOW COST OF OWNERSHIP

Low analyzer price, easy portability, low maintenance and reliable performance contribute to time and cost savings and a low overall cost of ownership.

EASY TO USE WINDOWS™ BASED SOFTWARE

The HGC can communicate with a PC via the HFA Fieldbus/USB converter. Windows® based software (HGM) provides an easy-to-use interface for viewing date and diagnostic information and to perform instrument set-up functions. In particular, the HGM software:

- Stores 300 chromatographs
- Trends BTU values
- Trends carrier gas pressure and oven temperature
- Stores raw and calculated data values
- Indicates operational status and diagnostic values
- Allows instrument set-up in a convenient environment



*The HGM software requires Windows® 98, Windows® Me, Windows® 2000, Windows® NT.

EASY TO TRANSPORT

The Portable HGC offers a ruggid, dust proof & water proof neoprene 0-ring seal enclosure which comes with a convenient extension handle, making the Portable HGC the perfect traveling unit for Natural Gas Measurements on the go.

FRONT VIEW

SIDE VIEW

TECHNICAL SPECIFICATIONS

PERFORMANCE SPECIFICATIONS

Repeatability of analysis: +/- 0.05% of heat value

FUNCTIONAL SPECIFICATIONS

Principle of measurement: Gas chromatography
Measured gas streams: Up to 4 streams
Analyzed components: 11
Analysis time (standard): 300 sec.
Detector: Micro TCD (Thermal Conductivity Detector)
Chromatographic methods:
ISO 6974, part 4
Heat value calculation methods:
GPA 2172
Gas to be analyzed: Natural Gas
Auto-calibration: External solenoid valve & contact required
Normalization of concentrations
Types of protection:
FM Approvals
Explosion proof for Cl 1, Div 1, Groups C & D, T4
Flameproof for Cl 1, Zone 1 AEX d IIB T4
Seal all conduits within 18 inches
NEMA Type 4X
IP 65
CE mark: Electromagnetic compatability (89/336/EEC, 92/31/EEC, 93/68/EEC)
Analyzer output protocol:
Foundation Fieldbus
MODBUS RTU or ASCII via RS-232, 485, 422
Analog: 4-20mA

PROCESS GAS CONDITIONS

Temperature: 14°F to 122°F (-10°C to 50°C)
Flow rate: 50 +/- 20 ml/min
Pressure: 7 to 70 psig measured at flow meter inlet
Dust and mist: None
Moisture: 2000 ppm or less
Coexisting component limits:
H_2, He, O_2, H_2S (dry) < 0.1 mol% each
Ambient humidity range: 0-95%RH

RANGES AND DETECTION LIMITS

Components	Range (mol%)	Min. Detection (mol%)
Sum of C6+	0 - 0.3	0.01
C_3H_6 (propane)	0 -3	0.05
i-C_4H_{10} (i-butane)	0 - 1	0.01
n-C_4H_{10} (n-butane)	0-1	0.01
neo-C_5H_{12}(neo-pentane)	0 - 0.5	0.01
i-C_5H_{12} (i-pentane)	0 - 0.5	0.01
n-C_5H_{12} (n-pentane)	0 - 0.5	0.01
N_2 (nitrogen)	0 - 20	0.1
CH_4 (methane)	50 - 100	-
CO_2 (carbon dioxide)	0 - 10	0.05
C_2H_6 (ethane)	0 - 15	0.05

INSTALLATION SPECIFICATIONS

Dimensions: 22-(1/6)" x 17-(15/16)" x 10-(7/16)"
Weight: 40lbs.
Material: Plastic (ABS)
Body:
Wet-parts: 304 Stainless steel, Polyimide
Sensor: Pt, Glass, Gold
Ambient temperature limits:
14°F to 122°F (-10°C to 50°C)
-10°F to 158°F (-14°C to 70°C) for storage
Power supply: 24 VDC or 110 VAC
Power consumption: 5 - 50 VA at 50°C to -10°C
Carrier gas: 99.99% Helium (or better purity)
Carrier gas flow rate: 25ml/min

Certifications

CSA Approval
Measurement Canada

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