



cosa+xentaur

COSA 9700

Wobbe Index / Calorific Value / CARI



Applications

- Waste Fuel Gases
- Bio-gas
- Flare stack monitoring
- Turbine control
- Combustion optimization
- Gas blending
- Steel Industry

Features

- High Precision ($\pm 0.4\%$ of reading)
- Fast Response ($T_{90} < 5$ sec for WI and CV)
- Large Measurement Range
- Residual Oxygen Method (No Flame) with optional measurement of oxygen in sample stream
- High Temperature Furnace (1050°C)
- Low Maintenance
- Small Dimensions
- Outdoor Installation without further enclosure

The Cosa 9700 is a fast response calorimeter for the on-line monitoring of Wobbe Index (WI), Combustion Air Requirement Index (CARI) and Heating Value (HV). The COSA 9700 is based on the Residual Oxygen Method (ROM), thus avoiding the use of a flame. The analyzer is immune to ambient temperature fluctuations and can be installed outdoors or in harsh environments. The high furnace temperature of 1050°C , converts all sulfur constituents into SO₂, thus eliminating corrosion issues with the exhaust gas. Optionally, the oxygen concentration in the sample can be measured continuously and the residual oxygen is offset accordingly. Further options include simultaneous measurements of sulfur and hydrogen concentrations.

SPECIFICATIONS:

Analyzer Performance:

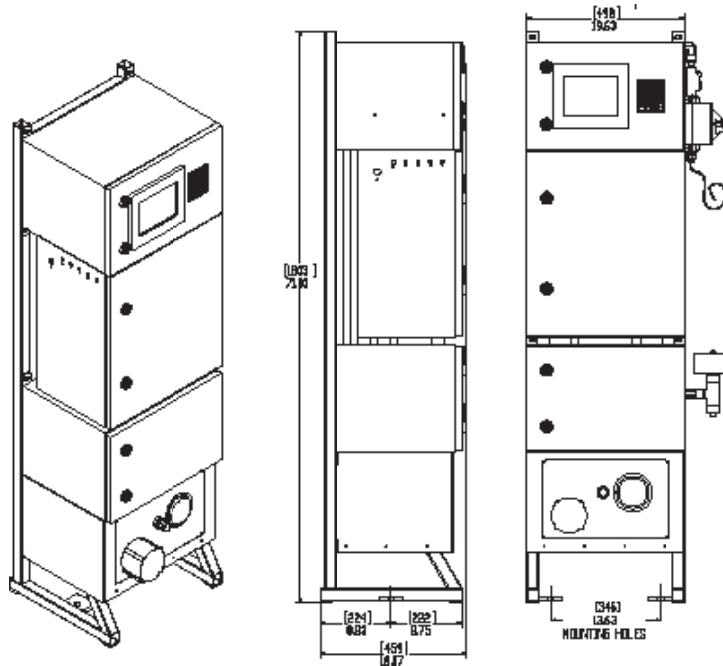
Model:COSA 9700
 Sample Gas:Naturalgas,fuelgas,refinerygases,
 biogas etc.
 Range (WI):0-2730BTU/SCF(0-108MJ/Nm³),
 Span1150BTU/SCF(45.3MJ/Nm³)
 (selectable)
 CAR1: 0-20, span 0-10)
 Accuracy (WI):±0.4% of reading for natural gas
 ±2.0% of reading for Raffinerie-Gas
 and gases with large variations of
 constituents
 Repeatability.....±0.7 BTU/SCF, (27.6 kJ)
 Drift.....0.4 BTU/SCF, (15.7 kJ/Nm³/24 H)
 Response Time.....T90 < 5 Seconds(WI und HV)
 Ambient TemperatureStandard: -40°C to +60° C
 Outputs.....2 x isolated 4-20mA with
 programmable span
 TCPIP Webserver
 Modbus 232/485
 Backlit LCD screen Malfunction
 relay
 Specific Gravity (optional)Range: 0.2-2.2 rD
 Accuracy: ±0.1% of reading

Utilities:

Power supply.....110 VAC, 50/60 Hz or
 220 VAC, 50/60 Hz
 Power consumption430 VA maximum
 Instrument AirAnalyzer:
 20 SCFH at 42 PSIG (0.53 Nm³h at
 1.4 bar)
 Z-purge:
 40 SCFH at 80 PSIG (1.06 Nm³h at
 5.5 bar)
 Sample flow:.....2 SCFH at 28 PSIG (950 ccm/min at
 2 bar)

Installation:
 MountingSS Frame
 Dimensions 19.63" x 71" x 18.07" / Free
 Standing (496 x 1803 x 459 mm)
 Weight110 lbs (50 kg)
 Weatherproof Protection:IP66 (NEMA 4X)
 Hazardous Area Classification Designed for
 installation in:
 Class 1 Division 2 Groups A,B,C and
 D (Z-purge)
 Class 1 Division 1 Groups A, B, C
 and D (X-purge)
 CertificationsEx ib px II T6 Gb Ta=+5C to 45C,
 IP66, II 2G, FM11ATEX0006X,
 IECEx. FMG 16.0030X

DIMENSIONS:



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