Vasthi Instruments

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PORTABLE FLUE GAS ANALYZER

VE5400 SERIES

VASTHI INSTRUMENTS

---- IT'S ALL ABOUT SAFETY ----

TÜVRheinland® CERTIFIED

TÜV SÜD

An Extremly Compact Flue Gas Analyzer

Vasthi's handheld Flue gas analyser, Model-VE5400 offers the efficiency of complete combustion optimisation all the way to comprehensive measurement and customer data management. Our flue gas analysers cover the entire measurement and documentation requirement in process and flue gas testing with instant reading.

Vasthi's VE 5400 series is an ideal analyser that measures 5 gases with 4 sensors. User-friendly gases selection is implemented in this analyser. This handy analyser consists unique features. It has in-built crystal-clear touch display which enables user to view concentration values of flue gases and Bluetooth / Wi-Fi connectivity facilities. Using these facilities, Users can download the stored data as well as print it with any printer using Bluetooth/Wi-Fi. User can compare daily data with charts & graphs to optimize and increase the combustion efficiency.

.....Functionality.....

- O2 (oxygen)
- CO (carbon monoxide)
- CO2 (carbon dioxide) calculated
- SO2 (sulphur dioxide)
- NO (Nitric oxide)
- NO2(Nitric dioxide)
- Draft pressure
- Tair (ambient temperature)
- Tgas (flue gas temperature)
- Difference in temperature
- Combustion efficiency
- Lambda (excess air)
- Flue-gas losses
- COref (with O2ref to configure)

.....Measuring gases and its technical specifications.....

O2 (oxygen)

- Range 0 to 25.00 Vol.%
- Accuracy ± 0,2 Vol.%
- Resolution 0,1 Vol.%
- T90 time < 30 seconds

CO (carbon monoxide)

- Range 0 to 2000 ppm standard, customized range is available.
- Accuracy ± 5 ppm (< 150 ppm) ± 5% RDG (150 to 2000 ppm)
- Resolution 1 ppm
  T90 time < 60 seconds

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SO2 (sulphur dioxide)

- Measuring Range0 to 2000 ppm standard,
- Accuracy± 5 ppm (< 150 ppm)
  ± 5% RDG (150 to 2000 ppm)
- Resolution 1 ppm
- T90 time < 60 seconds

CO2 (carbon dioxide)

- Range 0 to 20% V/V
- Accuracy ± 0,2 Vol.%
- Resolution 0,1 Vol.%
- T90 time < 30 seconds

Flue gas temperature

- Range 0 to +1000 °C
- Accuracy± 1 °C (0 to +300 °C)
- ± 0,5% RDG (from +300 °C)
- Resolution 1 °C
  T90 time < 30 seconds

NO

- Measuring Range0 to 2000 ppm standard,
- Accuracy± 5 ppm (< 150 ppm)
  ± 5% RDG (150 to 2000 ppm)
- Resolution 1 ppm
- T90 time < 60 seconds

NO2

- Measuring Range0 to 2000 ppm standard,
- Accuracy± 5 ppm (< 150 ppm)
  ± 5% RDG (150 to 2000 ppm)
- Resolution 1 ppm
- T90 time < 60 seconds

Temperature combustion air

- Measuring Range -20 to +200 °C
- Accuracy± 2 °C (-20 to 0 °C)
- ± 1 °C (0,1 to +200 °C)
- Resolution 0,1 °C
  T90 time < 70 seconds

Measuring gases and its technical specifications

An Extremly Compact Flue Gas Analyzer

General technical specifications.

Display	TFT Capacitive Touch Display
Sampling	SS 316 probe with temp measuring sensor up to 1000 Deg. C
Probe length	800 mm & 1200 mm as user required
Probe dia	8mm (12mm available one user option)
Sampling method	Auto suction with inbuilt high capacity pump
Water trap &Filters	Dust & water removal filter available with probe
Sensor	Easy to replace at user location
Zero calibration	User friendly zero calibration function available for all gases
Span calibration	User friendly SPAN calibration function available for all gases
Real time clock	Time and Date with location save facility
Working Temp	-5 to 1000 Deg. C with Probe
Storage Temp	-5 to 50 Deg. C
Bluetooth	Can connect any printer to get instant print of flue gas analysis
USB	User can download the history data at anytime using USB
	Vasthi interface software
Battery	3.7 V/ 3000 mAh / 12 hours continuous
Mains power supply	Mini USB 5 V
Enclosure	ABS IP 65
Dimensions	Check drawing
Weight	450 grams
Digital interface	USB
Flue selection	Light & heavy diesel Oil, Gas ,Coal, furnace oil,
	wood on user request
Printer or data communication	Optional wireless Bluetooth smart printer.

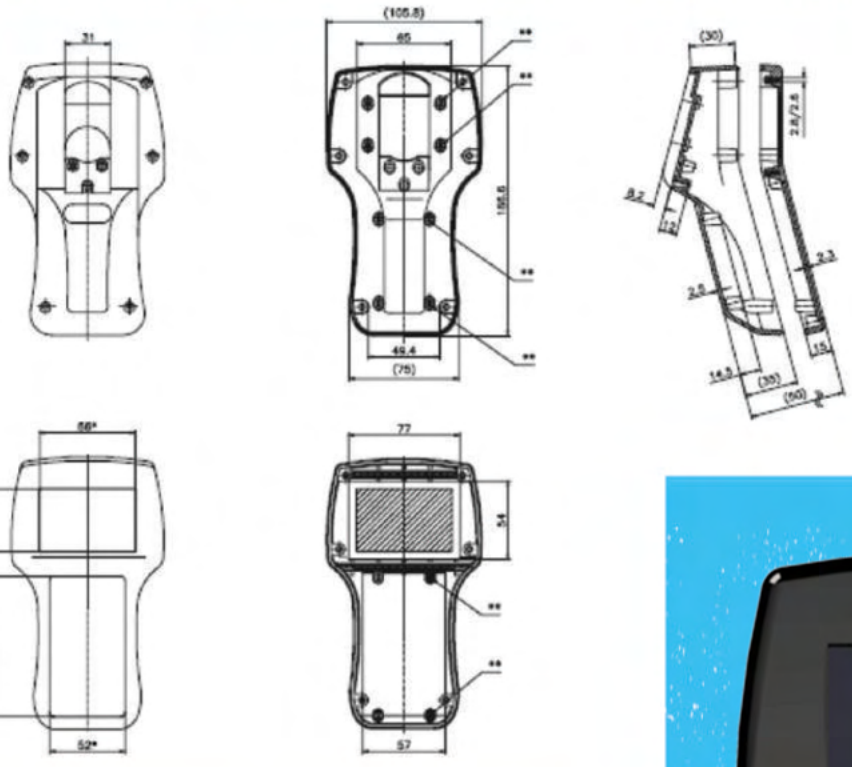
An Extremly Compact Flue Gas Analyzer

The **Vasthi** smart printer is a useful thermal printer for wireless printing of-measurement results from various Vasthi instruments. The Smart printer communicates with the measuring instrument by means of wireless infra-red communication.The Smart printer is suitable for use with the VE5400 series Flue Gas Analyzer.

Printer paper for the Printer

This SS 316 high temperature probe includes a 2.5 meter cable and is in-tended for measuring the temperature of the combustion air available with different length as user required. This means that youcan accurately measure temperatures and combustion efficiency in central heating systems where the combustion air is supplied via a separate channel.21

An Extremly Compact Flue Gas Analyzer



GA DIAGRAM

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VASTHI VE5400 SERIES

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