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Beijing Dorgean Electronic Technology Co.,Ltd

**Instrument Expert
Original factory
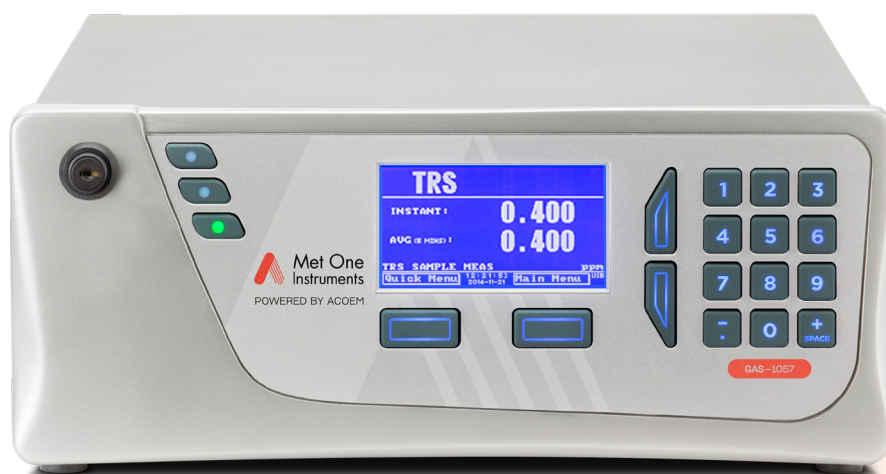packaging**
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Met One Instruments
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GAS–1057

Total Reduced Sulfur (TRS) Analyzer

The Met One Instruments GAS–1057 Total Reduced Sulfur analyzer delivers precise and reliable performance at excellent value.

It uses proven UV fluorescent radiation technology and a thermal converter to measure TRS in ambient air (LDL < 0.3 ppb, Range 0 - 2 ppm).

TRS is measured by converting TS to SO_2 using the external Acoem HTO1000 converter and then measuring the resultant SO_2 using the pulsed fluorescence technique.

metone.com

Approvals

Based on the GAS-1050 analyzer that has the following approvals:
· US EPA approval (EQSA-0809-188)

Benefits

The Met One range of gas analyzers have been designed using experience and knowledge gained from operating large air quality monitoring networks for more than 40 years. The result, instruments that integrate seamlessly into continuous monitoring networks.

· Guaranteed performance with a 2 year warranty

· Minimise time spent on site performing maintenance through superior remote instrument control, diagnostic viewing and calibration

· Comprehensive data logging and remote viewing of over 200 operational parameters

· Versatile interfacing through RS232, USB, Bluetooth, analog and optional TCP/IP

· Easier setup through an intuitive menu system with "Quick Menu", advanced GUI and a large keypad with tactile keys

· Instant display of operational status using illuminated traffic lights on the front panel

· Removable flash memory stores 10 years of data, including up to 12 individual parameters and event logs. Operational parameters can also be transferred to memory for easy retrieval

· Latest firmware updates can easily be installed using the USB flash memory drive

· Programming, viewing, downloading and emailing of data is made even simpler using Bluetooth connectivity combined with Android App

· Enhanced operator safety through the use of 12 VDC internal voltages

· Reduced cost of spare parts, accessories and consumable items through extensive use of standard components across the Met One analyzer range

· Rack slide design makes accessing internal components and removing the analyzer from a rack cabinet easy

· AQMS power usage can be reduced due to the instrument's low power demand and its ability to operate over a wide temperature range.

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Specifications

Ranges:	TRS: 0 – 2 ppm (Autoranging)
Concentration units:	User selectable mg/m^3, μg/ m^3, ppm, ppb, ppt
Noise:	< 0.15 ppb
Lower detectable limit:	< 0.3 ppb or 0.2 % of concentration whichever is greater
Linearity:	< 1 % of full scale
Precision:	0.5 ppb
Zero drift:	24 hours: < 0.5 ppb 7 days: < 0.5 ppb
Span drift:	7 days: < 0.5 % of reading
Response time:	60 seconds to 95 %
STP reference:	0 °C, 20 °C, 25 °C at 101.3 kPa
Sample flow rate:	725 cc/min
Temperature range:	0 – 40 °C
Power:	99 – 132 VAC, 198 – 264 VAC, 47 – 63 Hz
Dimensions:	429 x 175 x 638 mm
Rack Spacing:	3.5 RU
Weight:	18 kg (analyzer)

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Communication

· USB port (digital communication)
· Bluetooth (digital communication via Android App)
· TCP/IP Ethernet network connection (optional)
· RS232 Port 1: Digital communication
· RS232 Port 2: Multidrop port
· Protocols: Modbus RTU/TCP, Bavarian, EC9800,
  Advanced.

Inputs / outputs

25 pin I/O port

· Menu selectable current or voltage output
  0 – 20 mA, 4 – 20 mA or 0 – 5 VDC (opt. 0 – 10 VDC)
· Menu selectable offset of 0, 5 or 10 %
· Auto-ranging from 0 – 50 ppb to 0 – 20 ppm
  (between 2 user specified full scale values)
· 3 scaleable analogu inputs, 0 – 5 V, 160 μV
  resolution
· 8 logic level digital status inputs/8 open collector
  digital outputs.

Data logging

**Removable USB flash memory drive that stores data
in the following formats:**

· Instantaneous data from: 1, 3, 5, 10, 30,
  or 60 minute intervals and 2, 5, 10, 30 seconds
· Average data from: 1, 3, 5, 10, 15, 30 minutes,
  1, 4, 8, 12, or 24 hours
· Data storage of 10 years of 12 parameters,
  1 minute data on 8 Gb memory.

Options & accessories

· Acoem HT01000 thermal catalytic converter
· External AC powered pump
  (capable of operating 3 analysers, excluding NO_x)
· Dual filter (particulate)
· Rack slide kit
· TCP/IP network port
· High pressure zero/span valves
· SO_2 scrubber
· Printed manual – electronic manual supplied
  with analyzer
· Internal long life, low power maintenance
  free pump (max 6 watts).

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