

PG-350E Portable Gas Analyzer



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Descrizione

The PG-350E achieves measurement performance equal to laboratory equipment in a highly portable package. As part of the PG-300 series, the PG-350E is a compact stack gas analyzer that can simultaneously measure up to five separate gas components. The approximately 20% lighter body from the previous PG-250-model is optionally protected by rugged side guards, which prevent the analyzer from shocks and damages. PG-350E covers NO_x, SO₂, CO, CO₂ and O₂ - measurement and is operating according to: DIN EN 15267 - 3, DIN EN 14181 and approved as Standard Reference Method (SRM) for:
CO (DIN EN 15058)
O₂ (DIN EN 14789)
NO_x (DIN EN 14792)

The field conscious design supports whatever the measurement scene is. An optional electronic cooler unit is available for long-term measurement under tough environments such as gas turbines, boilers, and incinerators facilities.

Caratteristiche

- The NO_x detector uses a Cross-flow modulation chemiluminescence detection; the SO₂ and CO detector operate with a Cross-flow modulation Non-dispersive infrared (NDIR) absorption method; the CO₂ unit uses the standard Non-dispersive infrared (NDIR) absorption method; and the O₂ unit uses the paramagnetic method for exclusively in EU area.
- Cross-flow modulation method requires no optical adjustments as dual optical path measurement does, because sample gas and reference gas flow into a single measurement cell switching one by one. Since clean air is fed into the sample cell in between each batch of sample gas, the cell remains clean which reduces the span drift and keeps long-time stability.
- Ease of operation ensured by high visibility color LCD touch screen. The useful functions such as screen capture, trend graph, or operation guide, etc. can be executed on the screen.

- Reducing warm-up time in half, the PG-350E is ready to measure within 30 minutes. Moreover, the timer function sets up an automated warming-up according to Your time settings.
 - 95% efficiency of NO_x-convertor enables more precision measurement.
 - Energy efficiency rises up to 35% by reduced power consumption compared to our previous models.
 - A SDTM memory card slot is installed in the front panel and quick data saving is available. Ethernet interface for connection to a LAN environment enables real-time data import over the network.
 - Multi-language software setting menu: English, German, French, Russian
 - Certification: TÜV(EU)
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Manufactured by HORIBA

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Analysis principle

NO_x Cross-Flow Modulation Chemiluminescence Detection Method

SO₂ Cross-Flow Modulation Non-Dispersive Infrared
 CO Absorption Method

CO₂ Non-Dispersive Infrared
 Absorption Method

O₂ Paramagnetic Method

Specifications

NO_x 0-25/50/100/250/500/1000/2500 ppm

SO₂ 0-200/500/1000/3000 ppm

CO 0-200/500/1000/2000/5000 ppm

CO₂ 0-10/20/30 vol%

O₂ 0-5/10/25 vol%

Repeatability ±0.5% of full scale (NO_x: ≥100ppm range / CO: ≥1000ppm range)
 ±1.0% of full scale (Except above)

Linearity ±2.0% of full scale

Drift ±1.0% of full scale / day (For SO₂ analyzer only: ±2.0% of full scale / day)

Response Time (T₉₀) Analyzers except SO₂ analyzer: 45 sec. or less (From sample inlet, response time setting of electrical system: 10 sec.)
 SO₂ analyzer: 180 sec. or less (From sample inlet, response time setting of electrical system: 10 sec.)
 Moving average selectable (10 or 30 sec.)

Sample Gas Flow Rate Approx. 0.5L/min.

Display Measurement (3 or 4 digit display), range flow rate, etc.

Output DC 4-20 mA (non-insulated) / Ethernet

Warm-up Time 30 min. ±2.0% of full scale / 2 hours

Data Saving SD™ memory card / SDHC™ memory card

Ambient Temperature 0°C-40°C <32°F-104°F>

Ambient Humidity 85% RH or less

Power AC 100V to 240V

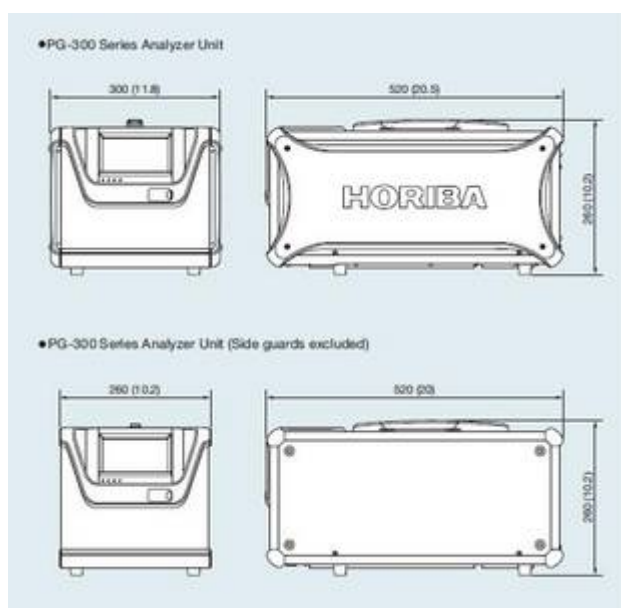
Power Consumption Approx. 160VA in a steady state (For 5 component analyzer)

Dimensions (With side guards)
300(W) x 520(D) x 260(H) mm <11.8"(W) x 20.5"(D) x 10.2"(H)>
(Without side guards)
260(W) x 520(D) x 260(H) mm <10.2"(W) x 20.5"(D) x 10.2"(H)>

Weight Approx. 13kg ~ 15kg <29lb ~ 33lb>

Sample Gas Condition
Temperature: Less than 40°C <104°F>
H₂O Content: Standard or less at ambient temperature
Dust: 0.1g/m³ or less
Pressure: ±0.98 kPa

Disegni schematici



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