



RASI700 BIO

Portable Gas Analyser

Technical data

Gas, flow, pressure and temperature measurements for biogas applications

The RASI 700 BIO series are the ideal tool for biogas application allowing you to take simultaneously measurements for gas, flow, pressure and temperature with one single tool.



Product features (extended)

- The RASI700 BIO can be configured to measure up to 7 gases, flow pressure and temperature
- Robust and modern design for harsh environmental application
- NDIR sensor for CH4% and CO2% , fully temperature and pressure compensated for highest accuracy and long term specifications.
- Electrochemical cells for O2, H2S, H2 and CO measurements
- Dual H2S sensor for high and low range and best accuracy
- Measure gas flow velocity using a special straight pitot tube
- Integrated water trap and filter to cope with wet biogas
- Store and download readings via SD card
- Large 3.5" TFT colour display
- Intuitive application oriented menu
- Easy to operate and maintain
- High efficiency Li-ION battery, USB charger, minimum 15 hrs of operation



Specifications 1-year

| BioGas measurements | | | | |
|--|---|-----------------------|-------------------|----------------|
| Gas measured | Range | Accuracy | Resolution | Type |
| O2 | 0 to 25% | ± 0.2% Vol | 0.01 % Vol | EC |
| CH4% | 0 to 100 % | ± 0.2%Vol or 3 % m.v. | 0.01 % Vol | NDIR |
| CO2% | 0 to 100 % | ± 0.3%Vol or 3 % m.v. | 0.01 % Vol | NDIR |
| H2S | 0 to 5000 ppm | ± 5 ppm or 5 % m.v | 1 ppm | EC |
| H2S | 0 to 50000 ppm | ± 50 ppm or 5 % m.v | 1 ppm | EC |
| H2 | 0 to 2000 ppm | ± 5 ppm or 5 % m.v | 1 ppm | EC |
| CO(H2 Compensated) | 0 to 10000 ppm | ± 10 ppm or 5 % m.v | 1 ppm | EC |
| Flow | 3 to 100 m/sec | ± 1 m/sec or ± 3% m.v | 0.1 m/sec | Pitot tube |
| Other measurements | | | | |
| Temperature | - 50 to 1200 C | ± 2C | 0.1C | TC type K |
| Pressure | -300 to 300 mbar | ±0.02 mbar | 0.01 mbar | Piezoresistive |
| Memory, data capture and communications | | | | |
| Storage | 16000 logs on internal memory, 2GB on standard SD card, data export to SD card in CSV format | | | |
| communications | standard USB, standard SD card, and Bluetooth(optional). IRDA communication to Optional printer | | | |
| General Specifications | | | | |
| Power | Li-ION internal rechargeable batteries, USB charge, AC 100-250 VAC, 47-63 Hz | | | |
| Weight | 750 grams | | | |
| Dimension (HxWxD) | 100x225x52 | | | |
| IP Protection | IP 21 | | | |
| Operating temperature | 5 to 45 C | | | |
| Storage Temperature | -20 to 50 C | | | |
| Display | Large 3.5 " TFT colour display, 6 lines, full graphic, 4 pages | | | |
| Operation Key | Tactile keyboard | | | |
| Warranty | 2 years on instruments, 1 year CO, NO, NO2, H2S cells, 2 years O2 cells, 2 years CO2%/CH4% NDIR bench | | | |



How to Order

| | |
|--------------------------|--|
| RASI700-BIO-02 | Gas Analyser for O ₂ , CO ₂ , CH ₄ and |
| RASI700-BIO-03 | Gas Analyser for O ₂ , CO ₂ , CH ₄ and dual H ₂ S 0-5000 ppm & 0-50000 ppm |
| RASI700-SENS-01 | Optional CO sensor, 0-10000 ppm |
| RASI700-SENS-16 | Optional H ₂ sensor, 0-2000 ppm |
| RASI700-OPT-13 | Gas Flow Velocity |
| RASI700-OPT-02 | Bluetooth communication |
| RASI-PTUB-250-12S | Straight Pitot Tube, 12x250 mm, for Flow/Gas/temperature measurement simultaneously |
| RASI-ACC-01 | Pressure reducer for sampling BIO-GAS on high pressure up to 200 mbar |

Included:

- **Integrated water trap with filter**
- **5 meter sampling hose with T connection for pressure measurement**
- **Li-ION rechargeable batteries**
- **USB wall charger and USB lead**
- **Soft case with space for accessories and analyser**
- **Instruction manual**
- **1 year valid calibration certificate**



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



UK Office

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.