



# 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.



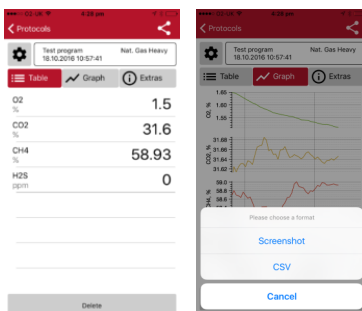
### Product features ( extended)

- 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
- 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
- Optional Bluetooth communication
- **Works with IOS/ANDROID mobile app**

### New Straight Pitot Tube

3 ways straight pitot tube allow for simultaneously sample of gas quality, flow velocity including mass flow calculation and temperature. The Pitot tube is supplied with a 1/2" BSP swivel adapter to fit the most common 1/2" ball valve to avoid gas escape during positioning.  
**Dimension: 12 mm x 250 mm**

### Use your phone to sample gas and collect data





## Specifications 1-year

<b>BioGas measurements</b>				
<b>Gas measured</b>	<b>Range</b>	<b>Accuracy</b>	<b>Resolution</b>	<b>Type</b>
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 10000 ppm	± 5 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
<b>Other measurements</b>				
Temperature	- 50 to 1200 C	± 2C	0.1C	TC type K
Pressure	-300 to 300 mbar	±0.02 mbar	0.01 mbar	Piezoresistive
<b>Memory, data capture and communications</b>				
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			
<b>General Specifications</b>				
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

<b>RASI700-BIO-02</b>	Gas Analyser for O <sub>2</sub> , CO <sub>2</sub> , CH <sub>4</sub> and H <sub>2</sub> S (0-5000 ppm)
<b>RASI700-BIO-07</b>	Gas Analyser for O <sub>2</sub> , CO <sub>2</sub> , CH <sub>4</sub> and H <sub>2</sub> S (0-10000 ppm)
<b>RASI700-SENS-01</b>	Optional CO sensor, 0-10000 ppm
<b>RASI700-SENS-16</b>	Optional H <sub>2</sub> sensor, 0-2000 ppm
<b>RASI700-OPT-13</b>	Gas Flow Velocity
<b>RASI700-OPT-02</b>	Bluetooth communication
<b>RASI-PTUB-250-12S</b>	Straight Pitot Tube, 12×250 mm, for Flow/Gas/ temperature measurement simultaneously

**Note: Require OPT 13 to be purchased**

**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

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Specification might change with-out prior notice

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