



Focus on freshness  
guarantee – with  
gas analysers from WITT.  
Keyword: HACCP

**»GASES RIGHT?  
PACKAGE TIGHT?«**

MARTIN BENDER: MANAGING DIRECTOR – WITT-GASETECHNIK

# OXYBABY® 6.0

Cordless hand held gas analyser for mobile sample testing  
of O<sub>2</sub>, CO<sub>2</sub> or O<sub>2</sub> and CO<sub>2</sub>

## 1 Graphic display

- Illuminated LCD display  
*Displayed information:*
- Results O<sub>2</sub>/CO<sub>2</sub>
- Product name, user, line
- Date/time of last measurement
- Charging status
- Memory status
- Sample-hold or permanent measurement
- Pressure inside the package



Our bestseller

## › INCLUDED IN DELIVERY

### Complete in carrying case with:

- Charging device
- 15 spare needles
- 5 spare filters
- Set of 100 patches
- Case dimensions (H x W x D):  
approx. 325 x 385 x 115 mm  
(12.79 x 15.16 x 4.53 inch)
- Case weight: approx. 1.7 kg (3.75 lbs) incl. contents
- Detailed operating instructions

## › Options

- Table stand and hose for use  
as tabletop unit

only for OXYBABY® 6.0:

- OBCC software
- Bluetooth (e.g. for separate printer)
- Separate printer



## 2 Ergonomic design

## 3 Integrated pressure compensation

- Compensates for air pressure fluctuations

## 4 Automatic measuring after needle insertion

- Result in 6 seconds
- Sample flow control
- Needle cover to protect needle and user

## 5 Integrated micro gas pump

## 6 USB interface

- Data transfer
- Charging

## 7 Micro SD card

- Software upgrades

## 8 One-hand operation

Ready for operation immediately

- Calibration at the push of a button

## 9 Synthetic body

- Easy to clean
- Shock resistant

## 10 Integrated hydrophobic filter

- Protection against impurities and moisture



OXYBABY® 6.0 is a cost effective alternative to tabletop analysers for checking modified atmosphere packaging (MAP) – for example in line with a HACCP system. Due to its minimum sample gas requirements the OXYBABY® allows even the smallest of modified atmosphere packages to be tested.

The cordless, easily manageable analyser provides accurate and quick data. A special highlight to avoid wrong results: the permanent flow control with automatic alarm in the event of needle or filter blockage.

The high performance device allows the administration of up to 25 users and the classification of results for up to 100 product names and 50 packaging lines.

The OXYBABY® 6.0 is the perfect tool for fast and exact sample testing of O<sub>2</sub>/CO<sub>2</sub> directly at the packaging machine, in stores and in the laboratory. Wherever results have to be recorded this ergonomic analyser can be used. The optional Bluetooth interface offers all benefits of modern technology – wireless communication, fast and easy. For example to connect a printer.

With the practical table stand, your OXYBABY® can be stowed away quickly and safely at any time using the magnetic connection. Supplemented with a hose, it can also be used as a tabletop unit.

The large data storage logs the last 500 results and allows long export intervals. In combination with the WITT software solution OBCC all results can be analysed and documented on a PC. The data transfer is realised via USB port.

With this full documentation you can guarantee highest packaging quality and optimal freshness to your customers.

Long-life sensors, simple component replacement and low maintenance costs make the OXYBABY® both reliable and economical over the long term.

See our video on: [oxybaby.wittgas.com](http://oxybaby.wittgas.com)

#### ➤ BENEFITS

- For the smallest of packs – minimum sample gas required (approx. 2 ml)
- Fast test – result in 6 seconds
- O<sub>2</sub> value is displayed in 0.01% steps
- Long lifetime of O<sub>2</sub> sensor
- No incorrect results – flow control with alarm
- Easy to use with one-hand operation and intuitive menu
- All information at a glance via the large, illuminated graphic display
- Cordless operation using rechargeable batteries
- No need to hand write results – full digital documentation
- Integrated data log of the last 500 measurements
- Hygienic, easy to clean synthetic body
- USB port
- Just one device for many applications – Administration of up to 25 users and management of results for up to 100 products and 50 packaging lines
- Multilingual menu guide (D, UK, F, I, NL, S, FIN, E, PL, RUS, H, TR)

#### ➤ OPTIONS

- Evaluation and documentation of measurement results with WITT Software OBCC (see page 10)
- Table stand and hose for use as tabletop unit
- Wireless communication via Bluetooth (e. g. for connection of a separate printer)
- Version for pressurised sample gas with pressure controller
- Equipment for headspace analysis in cans/bottles (Can-Piercer)

## The OXYBABY® from WITT – your perfect companion for mobile sample testing of food packages

### OXYBABY® M+

The basic model as a cost-effective alternative



#### ➤ BENEFITS

- Proven one-hand operation with rechargeable battery
- Measuring time 10 seconds
- Intuitive keypad for easy handling
- Compact display
- Data log of 100 results

#### ➤ OPTIONS

- Table stand and hose for use as tabletop unit
- Equipment for headspace analysis in cans/bottles (Can-Piercer)
- Version for pressurised sample gas with pressure controller

## OXYPAD – O<sub>2</sub>, O<sub>2</sub>/CO<sub>2</sub>

Battery-operated O<sub>2</sub>, O<sub>2</sub>/CO<sub>2</sub> gas analyser for fast and accurate spot checks in the laboratory or directly at the packaging machine.



### Mobile and stationary



#### 1 Easy-to-read graphic display

- 7" touchscreen
- Displayed are:
  - Measured values O<sub>2</sub>/CO<sub>2</sub>
  - User, product name, product line
  - Date/time of measurement
  - Battery status
  - Memory status
  - Pressure in the packaging

#### 2 Ergonomic, compact design

- For desktop and mobile use

#### 3 Needle prick measurement

- Determination of the measurement result in approx. 6 seconds
- Flow control
- Ergonomic needle pen
- Needle compartment to protect the operator and the needle

#### 4 Integrated micro gas pump

#### 5 USB connection

- Data transfer
- Battery charging

#### 6 Plastic housing

- Easy to clean
- Shock resistant

#### 7 Easily accessible service flap

- Low maintenance costs
- Simple service

#### 8 Integrated hydrophobic filter

- For protection against contamination and moisture

#### › WHAT'S INCLUDED

Complete in a handy case included:

- Charging device/ power supply unit
- 2 cleaning wires
- 15 replacement needles
- 5 replacement filters
- 100 self-adhesive sealing discs
- Case dimensions: approx. 325 × 385 × 115 mm (H × W × D)
- Case weight: approx. 2.5 kg incl. contents
- QR code for operating instructions and calibration certificate



The battery-operated gas analyser OXYPAD is a true 2-in-1 solution for quick and precise spot checks in the laboratory or directly at the packaging machine. Thanks to its innovative design, the OXYPAD is a mobile desktop device: a fully-fledged desktop analyser with 7" touchscreen and at the same time ideal for mobile use thanks to its low weight, ergonomic shape and battery operation. OXYPAD is easy to use, suitable for practically all MAP packaging and impresses with its low operating costs. Available for O<sub>2</sub> or O<sub>2</sub>/CO<sub>2</sub>. The touchscreen as the central operating element enables intuitive use and optimum information. Also ideal for users are the short measuring times and the large display. A special highlight for avoiding incorrect measurements: the continuous flow monitoring with automatic warning in the event of a needle or filter blockage. The powerful device enables the management of up to 5000 users and the assignment of measured values for up to 5000 product names and packaging lines. The large measured value memory enables long data export intervals and backs up the last 5000 measurements. Data is transferred via USB interface. With this complete documentation, you can guarantee your customers the highest packaging quality and optimum freshness. Durable sensors, simple component replacement and low maintenance costs make the OXYPAD reliable and economical in the long term.

➤ **FUNCTION → BENEFITS**

- Minimal sample gas requirement (< 6 ml)
- ➔ Also ideal for small packages
- Fast measurement on pinprick
- ➔ Measurement result in 6 seconds
- Large 7" touchscreen with graphical user interface
- ➔ Intuitive operation
- Measurement of the gas pressure
- ➔ Checking the correct gas pressure in the packaging
- Ergonomic, compact and lightweight design
- ➔ Also ideal for mobile use
- Needle compartment with flap
- ➔ For clean and safe storage of the needle
- Ergonomic needle pen
- ➔ Easy and safe handling
- Integrated measurement memory
- ➔ saves the last 5,000 measurements
- Product name management
- ➔ Assignment of measured values to product name, user and packaging line for up to 5,000 products
- Flow control with adjustment of the pump capacity
- ➔ Protection against incorrect measurement results
- USB interface
- ➔ Convenient connection to PC and battery charging
- Multilingual design

In a handy case  
for safe storage



**The OXYPAD from WITT – high-quality desktop device  
and mobile analyser in one**

# MAPY 4.0

The multi-functional premium gas analyser for guaranteed quality and control



reddot design award



MAPY 4.0 as 19" plug-in model for the use as a premium inline analyser

- 1 Shapely, ergonomic design**
  - „reddot design award“
  - Inclined display
- 2 Touch-screen**
  - Intuitive data and parameter entry
  - No skilled personnel needed
  - 7" WVGA color display
  - Resolution: 800 × 480 pixel
- 3 Stainless steel housing**
  - Easy to clean
  - Splash proof
- 4 Needle**
  - Flow control with alarm
  - Needle protector
- 5 Handhold**
  - For mobile use
- 6 USB connection**
  - Data transfer or software update via USB stick
- 7 Ethernet interface**
  - Integration into company network
  - Comfortable data administration and analysis
  - Customer oriented quality documentation
- 8 Integrated audible alarm**

## Multi-functional with touch-screen

The multi-functional analyser sets standards in quality control regarding the combination of visual appearance, ergonomics and functionality. The new touch-screen as the central control element allows intuitive handling and provides optimal information. The MAPY 4.0 can be used for continuous analysis or intermittent sampling via a needle. Fast and reliable measurements and automatic alarm functionality if limits are exceeded assure quality and economy in production. Different types of sensors are available depending on the type of gas – CO<sub>2</sub> or O<sub>2</sub>. The product portfolio contains chemical, paramagnetic, infrared or thermal measuring sensors. Also an extra long life zirconium measuring cell for precise O<sub>2</sub> results in ppm is available. High-class components and the robust stainless steel design guarantee long service life and meet the high hygiene requirements in the food industry. Various interfaces (Ethernet, USB, barcode reader, printer) allow easy and flexible integration into existing systems.

### › BENEFITS

- For the smallest of packs – minimum sample gas required
- Short measuring time
- High accuracy down to ppm – different measuring methods depending on application
- Reliability – flow control with alarm function
- High process safety by permanent system check with alarm function
- Reliable steady measuring results by pressure compensation
- Data logging of thousands of results
- Administration of up to 60 users with individual rights and full documentation
- Management of results and individual limit values for up to 120 products
- Customer-oriented quality control – data transfer via Ethernet or USB stick
- Manual measuring or automatic measuring
- Simple calibration of sensor
- Maximum hygiene – Easy to clean stainless steel housing

### › OPTIONS

- Different versions: sample testing, permanent control and for pressurised sample gas with pressure controller
- Sensors for additional gases
- Easy product selection with barcode reader
- As 19" rack version

**MAPY 4.0 by WITT – the top model for gas analysis of food packages**

## PA 7.0

The compact gas analyser for fast measuring of  $O_2$ ,  $CO_2$  or  $O_2$  and  $O_2/CO_2$



### 1 Graphical display

- Results in 0.1 % steps
- Illuminated LCD display
- Displayed information:*
- Results  $O_2$  /  $CO_2$
- Product name
- Date/time of last measurement
- Charging status
- Memory status
- Sample-hold or permanent measurement

### 2 Easy cleaning

### 3 Stainless steel housing

### 4 Needle for sample testing

### 5 Easy, intuitive use

- No skilled personnel required

### 6 USB interface

- Data transfer
- Charging

### 7 Micro SD card

- Software upgrades

## Versatile and economic

The modified atmosphere in food packages needs regular monitoring during the packaging process to guarantee freshness of food.

For best quality and efficiency in production. The compact gas analyser PA enables the testing of  $O_2$  /  $CO_2$  for modified atmosphere packaging. Wherever results have to be recorded this comfortable analyser can be used. This can be done as intermittent sampling via a needle or as continuous in-line analysis. Depending on the type of gas and analysis the PA contains a chemical, a zirconia and / or an infrared measuring cell. The PA has an integrated data log for the last 500 results, which relate to specific product names. Results can be transferred to a PC for editing and analysing, e. g. with the WITT OBCC software.



Also available as plug-in model

### > BENEFITS

- Compact design
- No skilled personnel required – intuitive use
- For the smallest of packs – minimum sample gas required
- Fast and precise results
- Versatile use – permanent monitoring or sample testing
- Logging of the last 500 results
- Individual limit values with relay contacts and alarm
- Maximum hygiene by easy-to-clean, robust and splash proof housing
- Interface for data exchange
- Multilingual menu guide (D, UK, F, I, NL, S, FIN, E, PL, RUS, H, TR)
- Different versions: sample testing, permanent control and for pressurised sample gas with pressure controller

### > OPTIONS

- WITT OBCC software for data administration and analysis

**The PA 7.0 by WITT – the economic analyser series for laboratories, test centers and packaging lines**

# INLINE GAS ANALYSIS

WITT inline gas analysers guarantee high efficiency and safety. The inline gas analysis starts directly during the packaging process and offers a continuous checking of the supplied protective atmosphere. This quality assurance is the perfect complement to subsequent checking, increases process quality and allows the reduction of random checks. This reduces personnel costs and the amount of packaging waste. Depending on the packaging machine, even the gas consumption and thus the costs can be significantly reduced. The WITT product range includes suitable inline analysers both for form, fill and seal machines as well as for thermoforming machines and tray sealing machines.

## 1. Inline gas analysis for thermoforming machines

In thermoforming packaging machines or tray sealing machines, a vacuum is first generated in the packaging chamber, thus removing the air. In the next step, protective gas is supplied and then the tray is sealed. WITT also offers the MAPY VAC analyser, which is specially designed for these machine types.

In each cycle of the packaging process, a sample is taken when the protective gas is filled into the packaging and analysed within seconds. The testing process is fully automatic. An alarm is triggered when limit values are exceeded. The user can intervene directly and make changes to the process. The quality of the MAP packaging process is 100% assured and continuously optimised.

## MAPY VAC

Inline gas analyser based on the MAPY 4.0, especially for thermoforming and tray sealing packaging machines



### ➤ BENEFITS

- Fast and precise gas analysis before sealing
- Measures every machine cycle
- Available as a single or double analyser (O<sub>2</sub> or O<sub>2</sub>/CO<sub>2</sub>)
- With touchscreen or as black box version (BB): MAPY VAC BB has no display and is specifically designed for automated machine control – control only possible via the packaging machine or a connected PC

### ➤ OPTIONAL

- IP45 accessory kit for improved water protection



## 2. Inline gas analysis for flow packing machines

In flow packaging machines, protective gas is continuously fed into the film tube during packaging. The MAPY LE inline gas analyser is – in combination with a WITT KM-FLOW gas mixer – the key to maximum efficiency: with a lance, a sample is continuously taken from every single pack and quickly analysed. As long as the oxygen value is below the set limit value, the quantity of the supplied protective gas is reduced via the WITT gas mixer KM-FLOW. Only as much gas is used as is abso-

lutely necessary for an optimum packaging result. Completely automatically. Human intervention is not necessary. The cost advantage is obvious: A reduction of gas consumption of up to 50 % is possible. The inline gas analyser is operated intuitively via the touch screen of the electronic control unit. The devices can be flexibly integrated into existing systems via numerous interfaces and connections such as Ethernet, 4-20 mA or potential-free contacts. Retrofitting is also possible.

**100 % safe process for a maximum safe product**

## MAPY LE

Inline gas analyser based on the MAPY 4.0, especially for tubular bag packaging machines



### › BENEFITS

- Function and menu reduced to the essential, for a lean workflow
- Economical and safe
- Available as a single or double analyzer (O<sub>2</sub> or O<sub>2</sub>/CO<sub>2</sub>)
- Housing with protection class IP 54
- Lockable front panel, straight display
- Optional: additionally with needle for sample analysis

## BACK-PURGING DEVICE

for in-line gas analysers against blocked filters on gas inlets, especially for powdery products

Milk powder, coffee, flour – very often these products cause blocked filters on in-line gas analysers. The new back-purging filter from WITT prevents the clogging of the filters effectively and, if desired, fully automatically.

### › BENEFITS

- Uncomplicated in-line gas analysis
- Contaminants are collected
- Purges automatically or at the push of a button



# DOCUMENTATION AND EVALUATION SOFTWARE

Quality assurance includes not only the selection of the most effective checking tools but also complete documentation. WITT offers tailor-made software solutions for gas analysers data export for Windows. This allows detailed recording, complete documentation of these checks and evaluation of the measurement results. An important component for optimised quality control and thus securing long-term supply relationships and demonstrating regulatory compliance.

**The final component of quality control –  
for the trust of your customers**

**OBCC®**

for OXYBABY® and PA



› **FEATURES:**

- Transmission of analysis data, date and time, user, products and lines
- Intuitive, clear user interface
- Convenient data management
- Graphical representation of the analysis data and developments
- Data analysis tool with filter options
- Data export as csv file (for further use in Excel) or as PDF

## WITT MEETS CUSTOMER REQUIREMENTS – YOUR TAILOR-MADE GAS ANALYSIS SOLUTION



**“Depending on the product, type of packaging and production conditions, the best solution for quality assurance can vary.  
Are you in doubt which form of gas analysis is most suited to your process?  
No problem: We will be happy to advise you based on your individual needs.  
Talk to us about your requirements!”**



**And if you want to go one step further towards complete quality assurance:  
We offer even more ...**



**Gas mixers,**  
which flexibly and reliably produce the  
optimum mixture for you at low cost



**Leak detectors,**  
which subject your packaging to a stress  
test and help to locate leaks



**Inline-Leak detectors,**  
which ensure 100% final inspection  
of the entire production – you can't do  
more

**Further information: [www.wittgas.com](http://www.wittgas.com)**

## OUR PRODUCT RANGE

### GAS CONTROL EQUIPMENT

- Gas mixing systems
- Gas metering systems
- Gas analysers
- Leak detection systems
- Gas pressure vessels
- Engineering of customised systems

### GAS SAFETY EQUIPMENT

- Flashback arrestors
- Non-return valves / check valves
- Quick couplers
- Safety relief valves
- Stainless steel devices
- Gas filters
- Pressure regulators
- Outlet points
- Lance holders
- Ball valves
- Automatic hose reels
- Test equipment
- Accessories
- Customised safety equipment

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