

"it-01B"

**THE HANDY PORTABLE  
FILTER INTEGRITY TESTER**



- The Food and Beverage Industry
- The Cosmetic Industry
- Liquid Filter Systems up to 150L
- Gas Filter Systems
- Volume Measurement

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## FILTER INTEGRITY TESTER "it-01B"

### PRODUCT DESCRIPTION

The Filter Integrity Tester "it-01B" is a handy portable filter integrity test instrument, which has been developed for filter integrity tests on membrane filters and filter systems in the **Food&Beverage** and **Cosmetic industries**.

In addition to filter integrity tests this instrument is also capable of checking unknown volumes (e.g. the upstream volume of a filter housing).

The following membrane filter systems can be checked:

- **Liquid Filter Systems up to 150L**
- **Single and Multi Systems -**  
The Pressure Drop Test
- **Gas Filter Systems**
- **Small filters and capsules -**  
The Pressure Drop Test
- **Volume Measurement \***
- **Volume checks** in the range of **0.5 to 150L**

\* - **Additional accessories necessary!**



### BENEFITS

- compact, portable and mains independent
- splash protected cabinet (IP 55)
- short test cycle time
- high accuracy and replicability of the test result
- user-friendly interface
- easy to maintain
- up to 40 filter test records and 10 filter programs can be stored in the instrument memory



## FILTER INTEGRITY TESTER "it-01B"

### „IN-LINE TESTING“ ON HUGE HOUSINGS

A special holder is fixed on the rear of the instrument to place it on the filter housings.



#### Test pressure range:

Automatic test pressure selection is in the range of **500** and **2800 mbar**.

#### Power supply:

Low voltage system (**7,5 V**)  
Rechargeable battery or mains operated

#### Protection class:

**IP55** (alternative IP 65).

#### Pneumatic connectors:

**Inlet:** male connector Rectus DN 7,2

**Outlet:** female valved connector Rectus DN 7,2

## FILTER INTEGRITY TESTER "it-01B"

### EXAMPLE: PRINTOUT

<b>IT-01B- FILTER TEST</b>	← TYPE OF THE INSTRUMENT
<b>SERIAL NR.:</b> 01061134	← SERIAL NR.
<b>DATE:</b> 09.11.19	← DATE AND TIME
<b>TIME:</b> 13:34	
<b>PROGRAM NO.:</b> 02	← SELECT A TEST PROGRAM
<b>TEST NR.</b> 22	
<b>PRESS. DROP TEST:</b>	← TYPE OF THE TEST
<b>FILTER SYSTEM:</b> LINE 1 APPLE JUICE	← LOCATION WHERE THE TEST IS CARRIED OUT
<b>FILTER TYPE:</b> 5X MF 20 INCH	← WHICH FILTERS MUST BE TESTED
<b>FILTER BATCH NR.:</b> 234-5667-G	← BATCH NR. OF THE FILTER
<b>PRODUCT BATCH NR.:</b> WITHOUT	← BATCH NR. OF THE FILTRATED PRODUCT
<b>TEST PRESSURE:</b> 1500 MBAR	← TEST PRESSURE (LISTED IN THE FILTER DOCUMENTS)
<b>STAB. TIME:</b> 300 SEK.	← STABILIZATION TIME (5-8 MIN, DEPENDING ON THE FILTER SYSTEM)
<b>TEST TIME:</b> 300 SEK.	← TEST TIME (3-5 MIN, DEPENDING ON THE FILTER SYSTEM)
<b>PRESS. DROP. MAX:</b> 100 MBAR.	← MAX. ALLOWED PRESSURE DROP (MUST BE CALCULATED)
<b>TEST RESULT:</b>	
<b>TEST PRESSURE:</b> 1528 MBAR	← TEST PRESSURE (ACTUAL VALUE)
<b>PRESS. DROP:</b> 82	← PRESSURE DROP DURING THE TEST (ACTUAL VALUE)
<b>TEST PASSED</b>	← TEST EVALUATION
<b>OPERATOR:</b> MANFRED KELLER	← USER NAME
<b>SIGN. OPERATOR:</b> .....	← USER SIGNATURE

## FILTER INTEGRITY TESTER "it-01B"

### PC-SOFTWARE

With the PC Software "**it-collect**" a lot of test records can be saved on a PC.

Test records can be printed by every printer which is linked to a PC.



### PROGRAMMING

Use the external keyboard for programming the instrument (it is a part of the instrument delivery). If the external keyboard is disconnected, program parameters can not be changed, even when the programming password is known.

Documentation of test records with the external printer

(Order-Nr.: it-prt-B):

The suitable needle printer is delivered for printing out test records (for documentation).

The printout can be glued on the report.

### CALIBRATION, MAINTENANCE AND QUALIFICATION RECOMMENDATIONS



Sensors and the pressure control system must be checked and calibrated **yearly**.

For maintenance and calibration the instrument must be sent back to the manufacturer. A special transportation box is a part of delivery.

All necessary measuring devices are calibrated and certified by DKD (Deutscher-Kalibrier-Dienst). A regular control of all calibration devices is guaranteed.

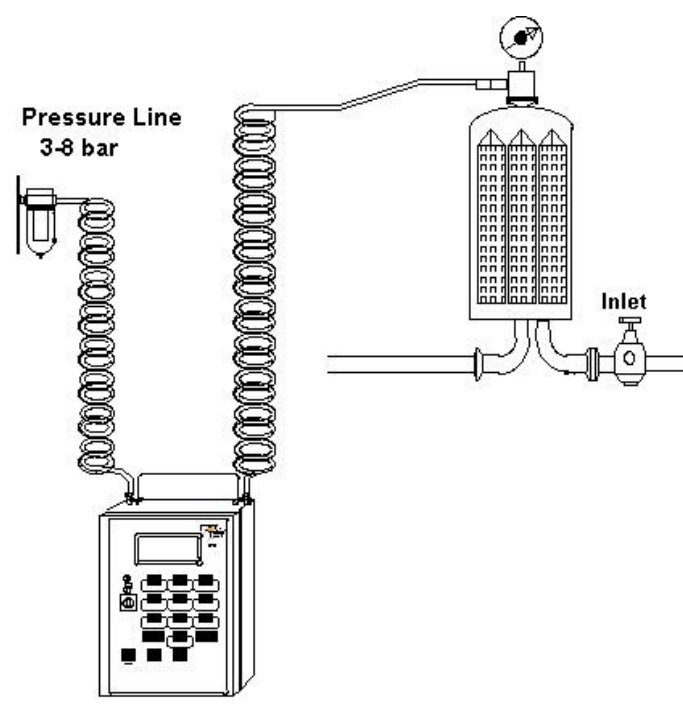
## FILTER INTEGRITY TESTER "it-01B"

### Technical specifications

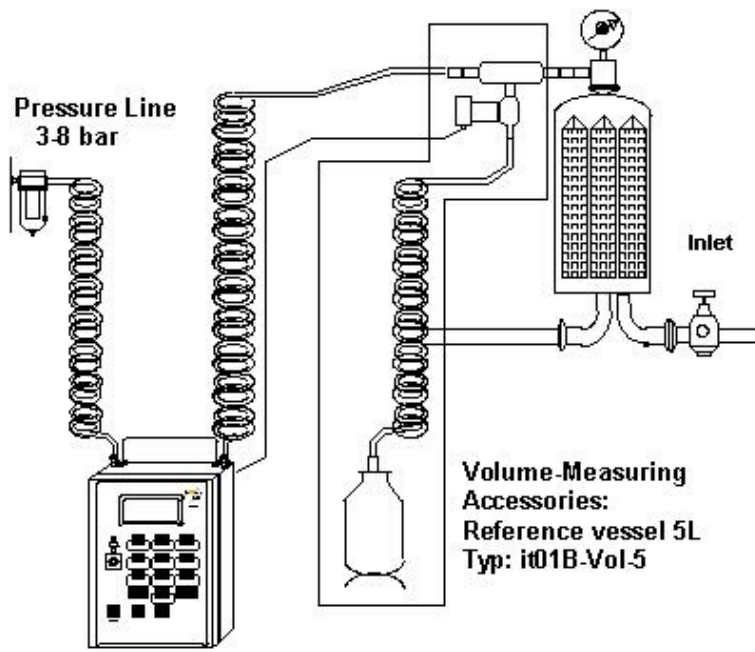
<b>CABINET MATERIAL:</b>	stainless steel 1.4301 (e-polished)
<b>CABINET DIMENSION:</b>	200x300x80 (without holders)
<b>WEIGHT:</b>	5,5Kg
<b>PRESSURE RANGE:</b>	500-2800 mbar
<b>MEMBRAN SENSOR:</b>	stainless steel 1.4404 (0-4barg), Class: 0.15
<b>MEASURING RESOLUTION:</b>	+/- 1mbar
<b>STORABLE TEST RECORDS:</b>	40 (fixed in Flash EPROM)
<b>STORABLE TEST PROGRAMS:</b>	10 (fixed in Flash EPROM)
<b>POWER SOURCE:</b>	rechargeable battery (NimH 7,2V 4,5Ah) or mains adapter (100-240V) with power supply
<b>TEST RECORD DOCUMENTATION:</b>	can be stored in an external PC or printed out by the external needle printer
<b>DISPLAY:</b>	4 lines, 20 characters- illuminated
<b>DATA CONNECTOR :</b>	RS 232 (19.200 bd)
<b>CPU:</b>	HC-12 Motorola
<b>PROGRAMMING LANGUAGE:</b>	C
<b>LANGUAGES:</b>	German, English, French, Italian, Spanish, Danish
<b>SOFTWARE MEMORY :</b>	FLASH -EPROM
<b>PNEUMATIC-CONNECTORS:</b>	Rectus DN 7,2
<b>OUTLET TUBE:</b>	PU 8/5, length: 3 m
<b>PROTECTION CLASS :</b>	IP 55 (alternative IP65)
<b>ENVIRONMENT TEMPERATURE. :</b>	5-40°C
<b>STORAGE TEMPERATURE :</b>	2-50°C
<b>REL. HUMIDITY:</b>	0-80%

# FILTER INTEGRITY TESTER "it-01B"

## Installation: The Pressure Drop Test



## Installation: Volume Measurement









## YOUR COMPETENT PARTNER IN FILTER INTEGRITY TESTING



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