

# A simple approach to **Mouth and Nasal** pressure measurements

## RP Check

Portable measurements MIP, MEP and SNIP

The **RP Check** is a handheld respiratory pressure meter measuring mouth and nasal pressures (MIP, MEP and SNIP).

Small, portable and lightweight the **RP Check** allows paediatric and adult patients to be tested with ease in various settings including bedside and Out-patient clinics as well as preoperative assessment situations.

Results are instantly displayed on a large backlit display allowing multiple tests to be performed per patient.



The **RP Check** can be used as a battery operated, standalone device, saving the last patients results on the unit.

Alternatively, the **RP Check** can be connected to PC software for upload of results or alternatively connected for "live testing" on the PC software for immediate report creation.



## Features:

- Patient can inhale/exhale prior to the manoeuvre with the mouthpiece in their mouth ensuring there is no leakage of air and patient is prepared for test
- Operator guidance as to when a good mouth pressure test has been performed. If the minimum exhalation time (1.5 seconds) has not been achieved then a stop watch icon is displayed prompting the operator to repeat the test
- Fully compliant to ATS/ERS standards for mouth pressures
- Large backlit display
- Each pressure trace can be viewed for analysis
- Soft flexible nasal olives for SNIP measurements ensuring patient comfort and ease of use
- PC connectivity for PDF report creation, containing predicted values, patient details, test results, best pressure trace graph and ALL pressure trace graphs

## RP CHECK



### Parameters measured (displayed in cmH2O):

#### Mouth pressures:

MEP - Maximum expiratory pressure  
MIP - Maximum inspiratory pressure  
Pmax - Peak pressure  
MRPD - Maximum rate of pressure development  
MRR - Maximum rate of relaxation

#### Nasal pressure:

SNIP – Sniff nasal inspiratory pressure

### PC software info:

USB connectivity to PC software for uploading of patients tests OR “live testing” of patient on PC software. Software is supplied on a USB stick for user installation.

- Upload of last patients tests and results
- Patient demographics can be entered for a choice of predicted values
- Each individual manoeuvre can be reviewed and deleted for Quality assurance
- Best pressure trace and All pressure trace graphs viewable
- PDF report creation for placing into patient records
- Choice of predicted values (Steffanutti & Fitting, Wilson et al and Uldry & Fitting)

### Catalogue number: RP01

### Specifications:

<b>Operating Pressure</b>	± 300 cmH2O	<b>Operating Altitude</b>	Sea level to 6000 ft (~2000m)
<b>Burst Pressure</b>	± 2000 cmH2O	<b>Storage Temperature</b>	-20 to + 70° C
<b>Accuracy</b>	+/-2%	<b>Storage Humidity</b>	10% to 90% RH
<b>Resolution</b>	1 cmH2O	<b>Display</b>	128 X 64 Pixels Graphic LCD
<b>Operating Temperature</b>	0-40 °C	<b>Power Supply</b>	Single 9v PP3 battery
<b>Operating Pressure</b>	Atmospheric 10%	<b>Weight (approximate)</b>	160g including battery
<b>Operating Humidity</b>	30% to 90% RH	<b>Dimensions</b>	135mm x 65mm x 30mm

**Compatible operating systems:** Windows 7 32 & 64 bit;  
Windows 8.1 64 bit;  
Windows 10 64 bit operating systems

#### References:

ATS/ERS Statement on Respiratory Muscle Testing - Am J Respir Crit Care Med Vol 166. pp 518–624, 2002

Stefanutti, D. & Fitting, J. W. 1999, "Sniff nasal inspiratory pressure. Reference values in Caucasian children", Am.J.Respir.Crit Care Med., vol. 159, no. 1, pp. 107-111.

Uldry, C. & Fitting, J. W. 1995, "Maximal values of sniff nasal inspiratory pressure in healthy subjects", Thorax., vol. 50, no. 4, pp. 371-375.

Wilson, S. H., Cooke, N. T., Edwards, R. H., & Spiro, S. G. 1984, "Predicted normal values for maximal respiratory pressures in caucasian adults and children", Thorax., vol. 39, no. 7, pp. 535-538

Doc No. WRP01 Rev1



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# MD Diagnostics

Patient ID: 123    First Name: Bob    Last Name: Someone

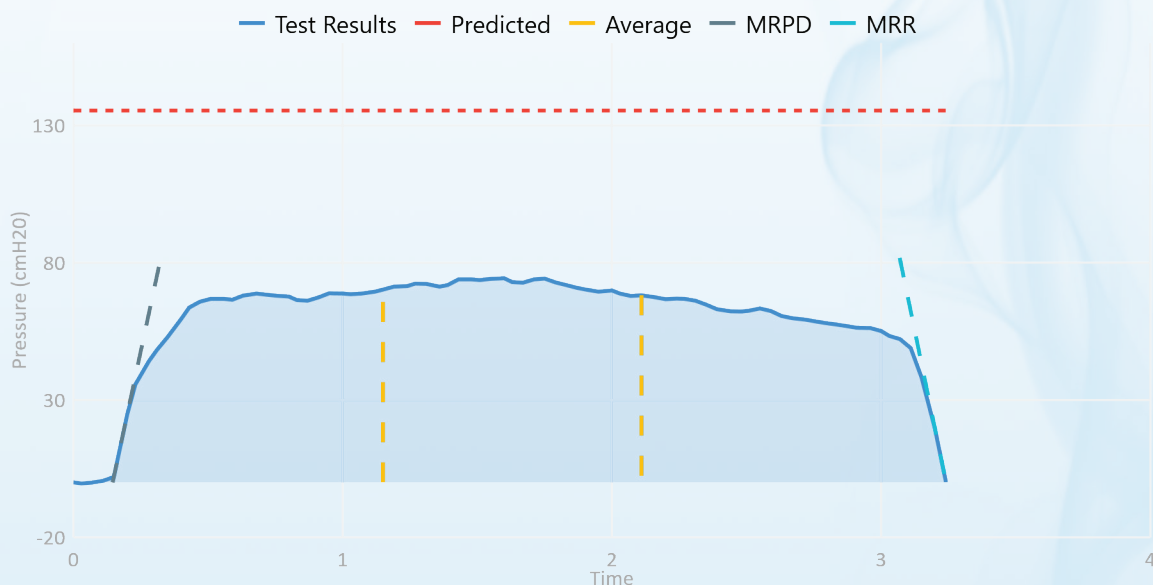
Gender: Male    Date of Birth: 08/07/1969    Age: 49

Height: 66Cm    Weight: 176Kg    Smoking Info: Non-Smoker

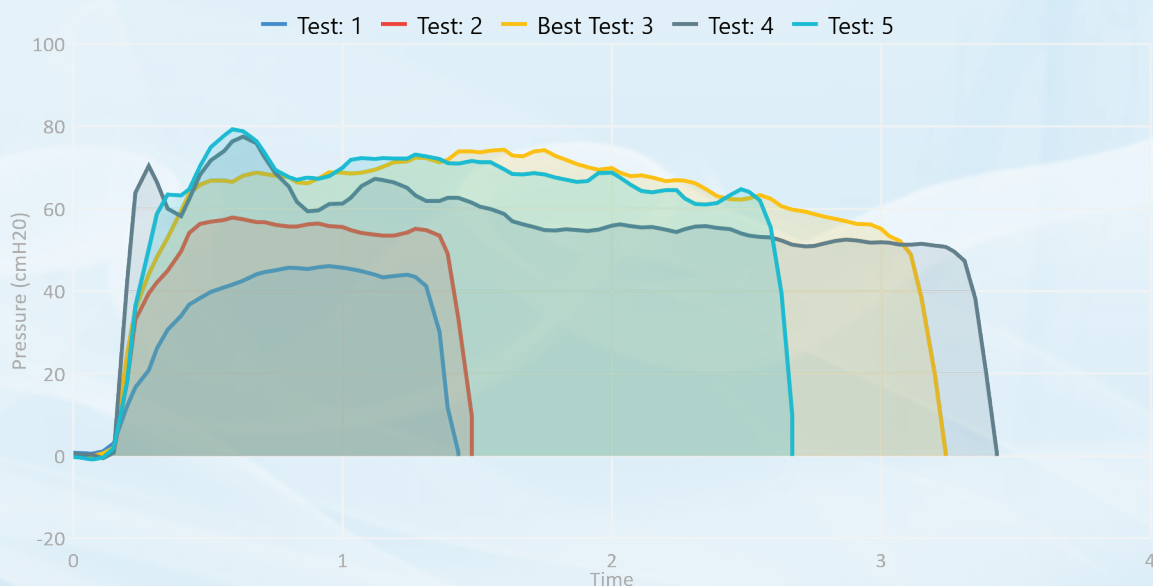
Date of Test: 05/02/2019 13:22:40

Indices	Value	Min Predicted	Predicted	Max Predicted	% Predicted
MIP	72	0	135	0	53.0
MRPD	571	N/A	N/A	N/A	N/A
MRR	7	N/A	N/A	N/A	N/A
Quality Check					

### Best Test



### All Tests



Physician/Health care professional: Dr Diagnostics

Signature: \_\_\_\_\_