

# 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.







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.

- ✓ Patient can inhale/exhale prior to the manoeuvre with the mouthpiece in their mouth ensuring there is no leakage of air and the 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

MIP/MEP combined single use filtered valve system with better than 99% efficacy for both bacteria and viruses\* Nasal pressure:

SNIP - Sniff nasal inspiratory pressure

#### PC software info:

USB connectivity to PC software for uploading of patient's tests or "live testing" of patient on PC software. Software is supplied on a USB stick for user installation.

- Upload of last patient's 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

#### Example print out

#### **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
Ouality Check					



#### **Specifications:**

**Operating Pressure** ± 300 cmH2O **Burst Pressure** ± 2000 cmH2O +/-3% Accuracy Resolution 1 cmH2O **Operating Temperature** 0-40 °C **Operating Pressure** Atmospheric 10%

**Operating Humidity** 30% to 90% RH

**Operating Altitude Storage Temperature Storage Humidity** Display **Power Supply** Weight (approximate) **Dimensions** 

Sea level to 6000 ft (~2000m)  $-20 \text{ to} + 70^{\circ} \text{ C}$ 10% to 90% RH 128 X 64 Pixels Graphic LCD Single 9v PP3 battery 160g including battery 135mm x 65mm x 30mm

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

Windows 8.1 64 bit;

Windows 10 and 11 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.

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.

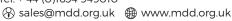
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