RP Check

A Simple Approach to Mouth and Nasal Pressure Measurements

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

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

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



Features

- Patient can inhale/exhale prior to the maneuver with the mouthpiece in their mouth ensuring there is no leakage of air and the patient is prepared for the 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 the 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 view for analysis
- Soft flexible nasal olives for SNIP measurements ensuring patient comfort and ease of use.

The RP Check provides the following measurements:

- **Mouth Pressures:**
  - ◊ Maximum Expiratory Pressure (MEP) - the highest average expiratory pressure achieved over one second.
  - ◊ Maximum Inspiratory Pressure (MIP) - the highest average inspiratory pressure achieved over one second.
  - ◊ Peak Pressure (Ppeak) - the maximum pressure achieved during the test.
  - ◊ Maximum Rate of Pressure Development (MRPD) - the highest rage of change of pressure on the upward stroke (before the one second average is achieved) of either a MIP or MEP test.
  - ◊ Maximum Relaxation Rate (MRR) - the maximum rate of change of pressure on the downward stroke (after the one second average) of either a MIP or MEP test, divided by the one second sustainable pressure value (the MIP or MEP value respectively).
- **Nasal Pressure:**
  - ◊ Sniff Nasal Inspiratory Pressure (SNIP) - the peak pressure obtained from a maximum sniff nasal maneuver.

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Parameters measured (displayed in cmH_2O):



Mouth Pressure:

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

Catalog Number: RP01



Specifications

Operating Pressure	+/- 300 cmH_2O
Burst Pressure	+/- 2000 cmH_2O
Accuracy	+/- 5%
Resolution	1 cmH_2O
Operating Temperature	32 - 104 ^oF
Operating Pressure	Atmospheric 10%
Operating Humidity	30% to 90% RH
Operating Altitude	Sea level to 6000 ft (~2000m)
Storage Temperature	-4 to +158 ^oF
Storage Humidity	10% to 90 % RH
Display	128 x 64 Pixels Graphic LCD
Power Supply	Single 9 volt battery
Weight	6 ounces including battery
Dimensions	5.3” x 2.6” x 1.2”

References:

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

*PHE England report 17/011

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