

Transform your Portable Spirometer into a complete and reliable Respiratory Mechanics Laboratory

- ▶ Measurement of respiratory muscle strength
- ▶ Either for healthy subjects or patients with pulmonary/neuromuscular diseases
- ▶ Easy to perform, quick, non-invasive
- ▶ Special mouth pressuremeter
- ▶ PC software for data editing and management
- ▶ Complies with ATS/ERS Guidelines



Application

- ▶ Pulmonology
- ▶ ICU
- ▶ Pre Operative
- ▶ Primary Care

Related Products

- ▶ Pony FX1

The MIP/MEP option allows, for the first time on a portable spirometer, the measurement of respiratory mechanics parameters like Maximum Inspiratory Pressure (MIP) and Maximum Expiratory Pressure (MEP).

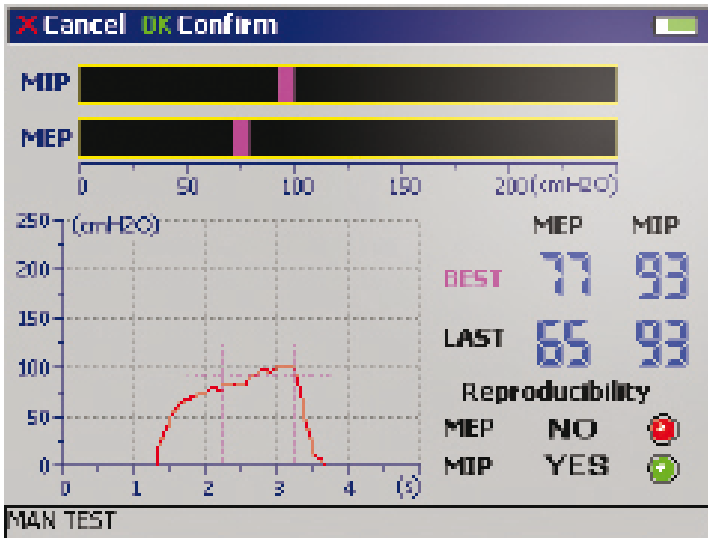
Determination of MIP/MEP is important as it helps to assess ventilatory capacity and the possible development of respiratory insufficiency. It can be used to assess ventilatory failure, restrictive lung diseases and respiratory muscle strength.

MIP/MEP is also helpful in evaluating the success of weaning patients from mechanical ventilators, and in predicting the outcome of cardiac transplantation surgery in patients with chronic congestive heart failure.

The MIP/MEP option for the Pony FX is an affordable solution to determine indexes of respiratory muscle strength using a flanged mouthpiece connected to the Pony FX spirometer.

The test is quick and noninvasive, but requires a certain extent of collaboration by the patient. The subject is instructed to begin by breathing normally with nose clip in place, perform a maximal expiration/inspiration and then inhale/exhale maximally against the MIP/MEP pressure sensor. In case of an expiratory maneuver, the subject is required to use also a rubber mouthpiece.

The mouth pressures recorded during these repeated maneuvers are assumed to reflect respiratory muscle strength and can be followed real-time directly on the Pony FX LCD screen. The screen shows also whether the current maximal maneuver (Inspiratory or Expiratory) can be considered reproducible (Yes/Green light) or not (No/Red light).



Pony FX LCD screen displays in real time mouth pressure values and best/last measurement values, plus reproducibility of current maneuver



The MIP/MEP pressure line is easy to set up and to use. It is recommended the be used with an antibacterial filter and (for expiration manoeuvre) rubber mouthpiece

Technical Specification

Measured Parameters

<i>P_{mouth}</i>	Pressure at mouth
<i>MIP</i>	max Inspiratory Pressure
<i>MEP</i>	Maximum Expiratory Pressure

Pressure Sensor

<i>Range</i>	±255 cmH ₂ O(±25 kPa)
<i>Accuracy</i>	±3%
<i>Resolution</i>	±0,0622 cmH ₂ O

Standard Packaging includes:

MIP/MEP pressure line spirometer, Pressure transducer board (internal), Rubber mouthpiece (for expiratory maneuver only) (2 pcs)

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