

## PICO FLOW



### Standard configuration:

Pico Flow is supplied in a standard configuration which consists of the Pico Flow unit and the flowmeter.

The flowmeter is composed by:

- Demountable flow stand
- Load cell with beaker
- Funnel with holder
- Connection cables

### Optional accessories

- Micturition chair
- FLAWSOFT software package along with cable and smart key
- Case for carrying the unit and accessories except the wet part (beaker and funnel)

### TECHNICAL DATA

#### Pico Flow Unit

- RS 232 serial port
- Built-in Thermal printer
  - Paper width: 110 mm
  - Resolution: 180 x 90 dpi
- Built-in Medical grade power supply
  - Power supply: 230 V - 50 Hz / 115 V - 60 Hz
  - Power consumption: maximum 50 VA
- Dimensions: 330 x 210 x 100 mm
- Weight: 4.5 kg

#### Flowmeter

- Flow transducer: high resolution load cell
- Input range: 0 to 100 ml/s
- Accuracy: +/- 1%
- Plot range: auto-scaling between 20, 50 and 100 ml/s
- Sampling rate: 10 Hz
- A/D converter: 12 bit
- Volume range: 0 to 2000 ml



# PICO FLOW

COMPUTERIZED UNIT FOR UROFLOWMETRY STUDIES



**PICO Flow** is an automatic microprocessor controlled unit, designed for carrying out the simplest and quickest test in Urodynamics: the uroflowmetry. This non-invasive test is the most commonly performed because of its simplicity and its content of information.

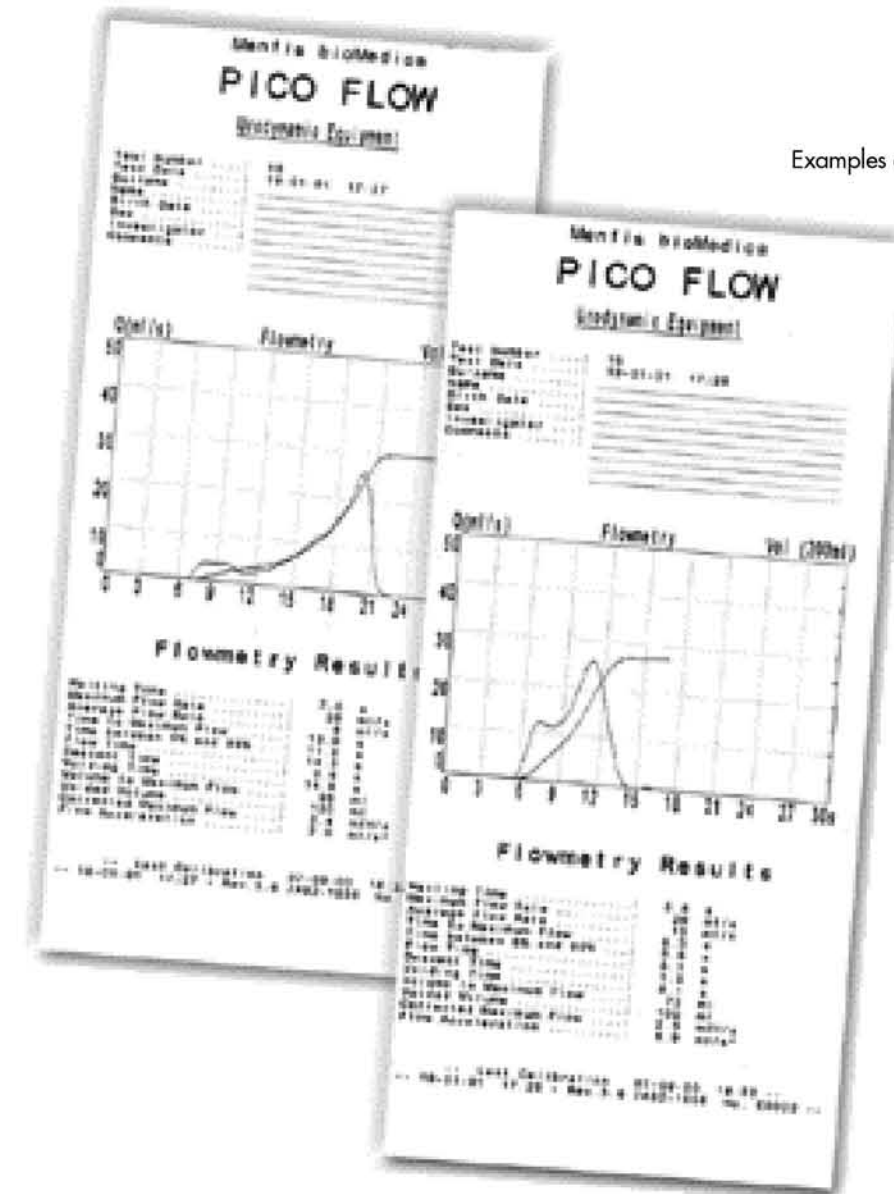
**PICO Flow** is a compact unit, easy to carry and operate. At the end of the micturition it, automatically, yields a report on thermal paper consisting of a blank patient form, a plot of urinary flow and voided volume and a full range of computed parameters.

**PICO Flow** has a large internal memory on which the last 50 flowmetry tests are stored in a permanent way even when the unit is turned off. These tests may be exported to the FLOWSOFT optional software packages installed in a PC.



**PICO Flow** can work in two modes: automatic or manual. The operating modes can be chosen at any time according to the patient's clinical status.

- Manual mode is particularly indicated for prostatic patients. When the patient is ready, the examination begins by pressing the button Start/Stop. The green led will be lighting which means that the recording is in progress. This phase is called "Waiting phase" and can last more than an hour. As soon as the first drop of urine is detected by the flowmeter the true "Recording phase" starts. During this phase the patient is urinating on the flowmeter. Once the patient has finished the test is brought to an end by pressing again the button Start/Stop. The button Print supplies a comprehensive alphanumeric report with a plot of flow curve and voided volume.
- In Automatic mode, the Pico Flow performs examinations in a continuous way without the user having to press any buttons. The unit is able to check the Beaker presence. Then it puts itself in a stand-by status which finishes when the patient starts to urinate. The end of micturition is detected automatically and the test is stored and analysed. Then the Pico Flow produces automatically a full report with the graphics and prepares itself for a new examination.



Examples of urinary flows

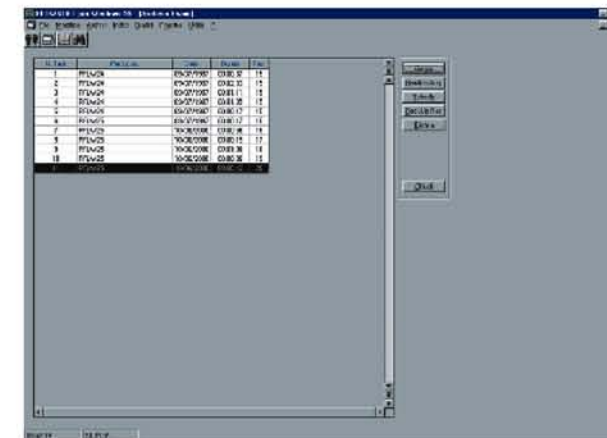
- Computed parameters:
- waiting time
  - maximum urinary flow rate
  - average flow rate
  - time to maximum flow
  - time between 5% and 95% of voided volume
  - flow time
  - descent time
  - voiding time
  - voided volume
  - volume to maximum flow
  - corrected maximum flow
  - flow acceleration

The data report can be supplied, on request, in the following languages: italian, english, german, french, spanish and portuguese



The optional FLOWSOFT packages allows the user to export the flowmetries stored into the **PICO Flow** towards any Windows-based PC. The transfer is made through a serial cable and the program is protected by a smart key. FLOWSOFT offers the possibility to store the flowmetries in a large test archive.

The tests can be recalled for analysis with tools such as zooming, markers insertion, artefacts elimination. Two modes of analysis are available: manual and automatic. The program yields a print-out with graphs, alphanumeric report, patient's data and a complete medical report.



The key points of the FLOWSOFT package are:

- The creation of a data base consisting of a case sheet for each patient with personal data, medical history and classification according to pathologic and diagnostic codes
- Editing of medical reports
- Performing statistical evaluations.
- Carrying out automatic or manual analysis
- Removal of artefacts
- Comparison with the well known nomograms of Siroky
- As optional feature is available the test export towards OFFICE® suite (Word, Excel, Power Point).