



**PRAISTON Sp. z o.o.**  
ul. Górowska 32  
64-100 Leszno  
Polska

Biuro: +48 65 527 01 67  
Serwis: +48 782 844 000  
Fax: +48 65 527 01 67

E-mail: [biuro@praiston.pl](mailto:biuro@praiston.pl)

Koordinator ds. sprzedaży  
Krzysztof Wybieralski  
+48 882 762 006

[kw@praiston.pl](mailto:kw@praiston.pl)



## **TIC MEDIZINTECHNIK NEWTON Urodynamics System (New)**

- New,
- Made in Germany,
- Newton is an EMG (electromyography) combined urodynamics system that, with its range of functionality and forward-looking ergonomics, sets the standard for performance, ease of use, simplicity and cost-effectiveness,
- This powerful measurement system enables urine flow measurements required in routine practice, in particular:
  - uroflowmetry with parallel EMG recording,
  - analysis according to Siroky et al, Höfner index,
- Product features and advantages:
  - It was developed in close cooperation with practicing physicians - the main focus during development was on functional scope and analytical capabilities,
  - Allows determination of all relevant flow parameters according to ICS standards and additional electromyographic data,
  - Has a precise sensor system used in weighing, which can be placed virtually anywhere thanks to a separate stand,
  - Equipped with an intuitive Windows-based graphical user interface (GUI),
  - Connects to the database via HL7, GDT and LAN,
  - Data acquisition occurs via a high-precision scale unit and EMG amplifier,
  - Can be retrofitted with a second EMG channel for recording abdominal wall contractions (optional),
  - Test and analysis results can be quickly and conveniently documented using the integrated thermal printer or stored in a database (Practice/KISS software),
  - User control is supported by a high-resolution touchscreen monitor on which measurements and analysis are visualized,
  - Diagnosis of micturition disorders in children is facilitated by a graphic animation based on biofeedback,
- Thanks to the system, it is possible to perform such tests as:
  - Cystometry,
  - Flow cystometry (pressure-flow measurement),
  - Compliance (displacement ratio),
  - Pressure-flow measurement,
  - ICS, CHES, linear PURR, OCO, DECO, OBI, DAMPF,
  - Urethral pressure profile - rest,
  - Urethral pressure profile - stress,
  - Transmission pressure, depression pressure, urethral closure pressure, depression coefficient, transmission coefficient,
  - Uroflowmetry with EMG recording,
  - Siroky et al, Höfner-Index,
- Specifications:
  - Flow channel:
    - Number of channels: 1,
    - Calibration and tuning: via software, automatic tuning,
    - Measurement range: 0 - 100 ml/sec,
    - Accuracy: +/- 5%,
    - Resolution: < 0.5 ml/s,
    - Bandwidth: software filter 1 - 10 Hz,
    - Hardware resolution 24 bits / 1 kHz,
    - Maximum capacity of 1100 g,
  - Pressure channels:
    - Number of channels 3: P1 (Pves), P2 (Pabd), P3 (Pura).
    - Calibration and tuning: by software,
    - Hardware resolution: 24 bits / 1 kHz,
  - EMG channels:
    - Number of channels: 1 input channel, 1 optional EMG channel,
    - Interference level: 10 µVrms (1 Hz - 5 kHz) when input is shorted,
    - Calibration: via software,
    - Sensitivity: < 1 µV,
    - Hardware resolution: 24 bits / 1 kHz,
  - Puller (puller):
    - Pulling speed: 1 - 5 mm/s,
    - Precision: +/- 2% of the value of the thing
    - Precision: +/- 2% of actual value, +/- 0.03 mm/sec,
    - Back up speed: 5 mm/s,
    - Travel: 190 mm,
    - Stop at the end function: automatic stop at the end thanks to non-contact Hall sensors,
  - Peristaltic pump:
    - Infusion rate:
      - 1 - 20 ml/min in increments of 1 ml/min,
      - 20-50 ml/min in 5 ml/min increments,
      - 50-100 ml/min in 25 ml/min increments,
    - Precision:
      - < 50 ml/min: +/- 5% of actual value,
      - > 50 ml/min: +/- 10% of actual value,
- Has a current Technical Passport issued,
- Warranty 24 months,

If you have any questions, please do not hesitate to contact us!

In case you don't find the product you are interested in, please get in touch with us and we will do our best to find the perfect solution for YOU.

