

Santron PC based Urodynamics



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Test Programs

- A] Uroflowmetry
- B] Cystometry
- C] Pressure Flow Study

Measurements Channels

a] Pressure :

Vesical Pressure (P_{ves}) ,
Abdominal Pressure (P_{abd}) / Urethral Pressure (P_{ura})
Detrusor Pressure (P_{det}) / Closure Pressure (P_{clo})

b] Infused Volume

c] Infusion Rate

d] Uroflow :

Flow Rate & Voided Volume

e] Post voiding residual

f] EMG * optional



Santron PC based Urodynamics Technical Specifications

Measurements Channels

a] Pressure (cm H₂O) : Vesical , Abdominal , Detrusor Pressure

Pressure Sensors : 2 Nos. Range: -40 to 300 cm H₂O

Plot Scale: 0-50, 0-100, 0-200 cm H₂O

Sensitivity : 0.2 cm H₂O , Highly reliable & rugged Pressure Transducers

Simultaneously and Individual Zero of Pressure Channels Available through Software

b] Infused Volume (ml)

NS (plastic or Glass Bottle) infusion by Infusion Pump

Infused Volume Sensor : Range : 0-1000 ml Plot Scale : 0-500, 0-1000 ml

Auto Zero of Volume , Message for Change (empty) infusion bottle with auto Pause.

c] Uroflow : Flow Rate (ml/sec) and Voided Volume (ml)

Uroflow sensor: Weight based , Maintenance free : 1 No.

Flow Range : 0-100 ml/sec Plot Scale : 0-25, 0-50 ml/sec. Voided Volume

Range : 0-1000 ml Scale: 0-500, 0-1000 ml

Auto zero of Volume

d] EMG : Optional Using Pad Electrodes



Santron PC based Urodynamics

Technical Specifications

- 1] **Computer Software** : User Friendly Window based Software with Patient database .
 - 2] **Computer Hardware required** : i3 Computer / Laptop + Color Printer and WIN 7 / 8 /10 OS
 - 3] **Interface to PC** : Through USB port Ver 2.0 and above.
 - 4] **Output Reports** : On colour inkjet /Laser Printer Paper size : A4 Paper Type : Plain Paper
 - a] Uroflow Results : 1 page with graph and nomograms
 - b] Pressure- Flow Study : 3 Pages 1] Filling Phase 2] Voiding Phase 3] Conclusions and event details
- * All reports carry Hospital & Doctors information as letter head along with Patient Details.**
- 5] Marker Types : Bladder Sensation , General purpose, leak point, cough, Detrusor Contractions , Vasalva Leak Point Pressure , artifact and many more
 - 6] Operating Temperature Range : 0 to 45 deg. Centigrade

Standard Equipment

- PC interface 1 No. + PC Windows based software + Control Box 1 No.
- Pressure Sensors : 2 Nos. , Uroflow sensor 1 No. , Infusion Sensor 1 No.
- Infusion Pump 1 no. , **optional** EMG module 1 No.
- Accessories : stainless steel trolley , Connecting Cables ,Uroflow commode seat, funnel, Jar etc...

Santron PC based Urodynamics Features

- **User Friendly** color graphical interface.
- **Compact SS trolley design** for maximum space saving and minimum handling.
- **High Precision temperature compensated sensors** for accurate results and maximum stability
- **Highly reliable and rugged Pressure Transducers** (Does not require Special Pressure Domes , thus saving Accessories cost)
- **Digital Calibration of all Sensor** ensuring maximum Calibration Stability and Reliability. No Analog Adjustments required.
- **No need for re-calibration once Factory Calibrated for given sensors**
- **Real time Scrolling** on the screen without wrapping around.
- **Event Markers** can be inserted in during the procedure or the Review phase. Certain Markers can be added or removed during the review mode.
- **Markers can be deleted if required.**
- Multiple graphs portions can be marked for **artifact removing** , for calculation / report generations.



Santron PC based Urodynamics Features

- **Pretest and Post test residual urine Measurement possible.**
- **Auto & Manual Zero of Pressure Channels:** Simultaneously and Individual Zero of Pressure Channels Available through Software
- **Patient Data Base:** Patient study is saved and can be recalled whenever required.
- **Facility to enter Patient History, Test Conclusions and Standard Reporting details**
- **Pretest and Standby Mode:** All Channels Scroll across the screen in real time without storing the data for necessary real time adjustments.
- **Moving Cursor:** Movement of mouse pointer across the waveform provides numeric value of each recorded channel at the cursor position.
- **Colour Printout with test graphs details, computed parameters**
- **Standard Nomograms & ICS recommended report format and parameters**
- **Online Support for trouble shooting, Installation and Calibration**





 **Santron Meditronic**

ISO 13485:2016 certified company

Manufacturers & exporters of Santron Uroflowmeters, Urodynamics, Bladder Scanners & medical equipments.
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