Technical Specifications

ISO 13485:2003 approved

CE marking according to MDD93/42/EEC Degree of protection against harmful ingress of

water: IP X 1

Dimension and Weight Dimension: 13.5in x 11.5in x 6.5in 344mm x 291mm x 165mm Net Weight:

8.6lbs with battery (3.9kg) Gross Weight: 18lbs (8.2kg)

Operation Environm

Power: AC100-250V, 50/60Hz Temperature 41°F-104°F (5°C-40°C) Humidity: 15%-93%

Patient Range

Patients: Adult, Pediatric, Neonate

Performance Specifications

Display for 780: 12.1" color TFT touch screen Display for 780Plus: 15" color TFT touch screen Resolution: 800x600

maximum 8 waveforms display Sweep Speed: 6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s

Indicator Power, Battery, Alarm lights and QRS, Operating Key, Alarm

sounds Interface: Parameter cable interface

AC power input socket Network interface DR9 interface

External VGA interface Nurse call interface USB port

SD card socket Battery: Lithium polymer plug & play rechargeable battery (4 hours of

continuous working time) Trend Time:

User-adjustable high and low limits for audible and visual alarm Networking: Connects to central monitoring

system (wired and wireless) Recorder (Optional): Built-in, thermal array, 2 channels Record Mode: Manual, Upon alarm, Continual,

Time-defined Record Speed 25mm/s, 50mm/s Paper Width: 1.97in (50mm)

ECG-Cardio Tee™ 12-Leads ECG Analysis

Lead Selection: 3-lead (I, II, III)

5-lead (I, II, III, V, aVR, aVL, aVF) 12-lead (I, II, III, V1-V6, aVR, aVL, aVF)

Gain Selection: X1/4, X1/2, X1, X2, X4, Auto Sweep Speed: 6.25mm/s, 12.5mm/s, 25mm/s, or

50mm/s Filter Bandwidth Mon: 0.5-40Hz

DIA: 0.05-130Hz OPE: 1-20Hz HR Range: Adu: 15-300bpm Ped/Neo: 15-350bpm HR Resolution

1bpm HR Accuracy: ±1% or ±2bpm HR Alarming Time <12s ST Segment

Detection Alarm: -0.20mV-0.20mV (default) Arrhythmia Analysis:

User-adjustable high, mid, low

limit ranges Anti-Electrical

Interference: Line frequency, electro-surgery and defibrillation protection. pacemaker detection

Respiration

Measurement Method: Thoracic impedance RR Range: Adu/Ped: 0-120rpm Neo: 0-150rpm RR Resolution RR Accuracy: ±1rpm

Ph: 631-676-7432

Apnea Alarm: Yes, 10-40s User-adjustable high and low

Lutech SpO₂ Saturation Range: 0-100%

Saturation Resolution:

±2% (70-100%, Adu/Ped) Saturation Accuracy: ±3% (70-100%, Neo) Unspecified (0-69%) PR Range: 20-250bpm

PR Accuracy: ±3bpm (non-motion) ±5bpm (motion)

Alarm: User-adjustable high, mid, low limit ranges

Masimo SpO₂ (Optional)

Saturation Accuracy: ±2% (70-100%, Adu/Ped) ±3% (70-100%, Neo)

Unspecified (0-69%) PR Range: 25-240bpm PR Accuracy: ±3bpm (non-motion) ±5bpm (motion)

Nellcor SpO₂ (Optional)

Saturation Range: ±3% (70-100%) Saturation Accuracy: Unspecified (0-69%) PR Range: 20-250bpm

PR Accuracy: AcuTee™ NIBP

Measurement Method: Automatic oscillometric Measurement Modes: Manual, Automatic Auto Mode Times: Adjustable 1-480min Systolic, Diastolic, Mean Pressure Types: Pressure Units: mmHg/kPa selectable

±3bpm

Pressure Range Range for Systolic Pressure:

Adu: 40-270mmHg Ped: 40-200mmHa Neo: 40-135mmHg

Range for Diastolic Pressure: Adu: 10-215mmHa

Ped: 10-150mmHa Neo: 10-100mmHa

Range for Mean Pressure: Adu: 20-235mmHa

Ped: 20-165mmHa Neo: 20-110mmHa Systolic Diastolic Mean ±5mmHa

Pulse Rate Range: 40-240bpm Over-Pressure

Adu: 300mmHg Protection: Ped: 240mmHg Neo: 150mmHa

Temperature

Alarm Type:

Pressure Accuracy:

Temp Units: °C/°F selectable Temp Range: 32-122°F (0-50°C) Temp Resolution: 0.1°F (0.1°C) Temp Accuracy: ±0.3°F (±0.1°C)

IBP (Optional)

Measured Pressures: P1, P2, ART, PA, CVP, LAP, RAP,

Pressure Units: mmHg/kPa selectable Pressure Range: ±2% (100-300mmHg) Pressure Accuracy: ±4% (0-100mmHg)

CO₂ (Optional)

Measurement Method: Non-dispersive infrared (NDIR)

Respironics CO₂

Mainstream (Capnostat 5):

0-150mmHg (at 760mmHg) CO₂ Range: 0-19.7% (at 760mmHg) CO₂ Accuracy: ±2mmHg (0-40mmHg) ±5% of reading (41-70mmHg) ±8% of reading (71-100mmHg)

±10% of reading (101-150mmHg) RR Range: 0-150rpm

Sidestream (LoFlo):

0-150mmHg (at 760mmHg) CO₂ Range: 0-19.7% (at 760mmHg)

CO2 Accuracy ±2mmHq (0-40mmHq) ±5% of reading (41-70mmHg) ±8% of reading (71-100mmHg) ±10% of reading (101-150mmHg)

RR Range: 2-150rpm PhaseIn Anaesthetic Gas (Optional)

CO2 Range:

RR Range:

CO2 Accuracy:

Mainstream (IRMA AX+): AG Range:

Measurement Method:

CO₂: 0-10vol% N2O: 0-100vol% HAL: 0-8vol% ISO: 0-8vol% ENF: 0-8vol%

Phaseln CO₂ Mainstream (IRMA) or Sidestream (ISA)

0-15vol%

±2mmHg (0-40mmHq)

Non-dispersive infrared (NDIR)

SEV: 0-10vol% DES: 0-22vol%

AG Accuracy: CO2: ±0.3vol%+2% of reading N2O: ±0.2vol%+2% of reading

HAL: ±0.15vol%+5% of reading ISO: ±0.15vol%+5% of reading ENF: ±0.15vol%+5% of reading SEV: ±0.15vol%+5% of reading DES: ±0.15vol%+5% of reading

RR Range:

Sidestream (ISA AX+/OR+): AG Range: CO₂: 0-10vol%

N₂O: 0-100vol% HAL: 0-8vol% ISO: 0-8vol% ENF: 0-8vol% SEV: 0-10vol% DES: 0-22vol%

O2: 0-100% (for ISA OR+ only) AG Accuracy: CO₂: ±0.2vol%+2% of reading

N₂O: ±0.2vol%+2% of reading HAL: ±0.15vol%+5% of reading ISO: ±0.15vol%+5% of reading ENF: ±0.15vol%+5% of reading SEV: ±0.15vol%+5% of reading DES: ±0.15vol%+5% of reading O2: ±1vol%+2% of reading (for ISA OR+ only)

RR Range: 0-150rpm

Cardiac Output (Optional)

Thermodilution Measurement Method: 0 1-20I /min C.O. Range: C.O. Resolution 0 11 /min ±5% or ±0.1L/min C.O. Accuracy: Blood Temp (BT) Range: 77-109.4°F (25-43°C) Injection Temp (IT)Range: 32-77°F (0-25°C) BT/IT Resolution: 0.1°F (0.1°C) BT/IT Accuracy: ±0.3°F (0.1°C, no sensor)

Impedance Cardiography (Optional)

Measurement Method: Thoracic bio-impedance C.O. Range: 1.4-15L/min C.O. Accuracy: Unspecified Stroke Volume Range: 5-250mL Stroke Volume Accuracy: Unspecified HR Range: 40-250bpm HR Accuracy: ±2bpm

Index of Consciousness (Optional)

qCON Range: SQ I Range: 0-100% EMG Range: 0-100dB ESR Range: 0-100% Total Index Update Delay: 8s

Standard Configuration

ECG/HR, Lutech SpO2, NIBP, Resp., Temp., and Pulse

Optional Configuration

Nellcor SpO₂, Masimo SpO₂, IBP, Respironics or Phaseln CO₂ (Mainstream or Sidestream), Phaseln Anaesthetic Gas (Mainstream or Sidestream), Cardiac Output, Impedance Cardiography, Index of Consciousness, Recorder, Central Monitoring System (LAN or Wireless, HL-7).

Standard Accessories

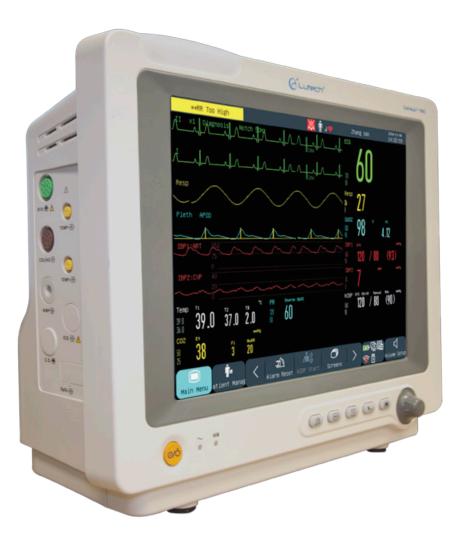
10-lead ECG cable set w/ electrodes (Adu), Lutech SpO2 sensor (Adu) with extension cable. NIBP cuff with extension tubing (Adu), Skin temperature probe (Adu). Stylus pen, Battery, Power cord, Grounding cable, User manual

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Intensive Care Monitor



V3.3 - 03/05/2019

Datalys™ 780

Intensive Care Monitor...

When every second matters!

The Datalys[™] 780 uses CardioTec[™] ECG technology, world leading OxiMax technology, high precision AcuTec[™] hypertension monitoring technology as a standard configuration. Also incorporated are the world's best medical technologies for SpO₂, ICG, EtCO₂, Anesthesia Gas Monitoring from some of the world's best OEM technology providers, such as NELLCOR, RESPIRONICS, ARTEMA & BIOZ. In essence, the Datalys[™] 780 provides medical professionals with powerful monitoring options and functionalities that match the demands of a wide range of care in any hospital environment.

ECG

- CardioTec[™] 12-lead ECG waveform synchronously display High Precision ECG measurement technology, assists in precisely diagnosis of patients.
- CMRR≥105dB, outstanding ECG anti-interference capability.
- Support arrhythmia analysis & alarm review.

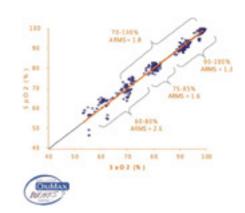


SpO₂

Advanced SpO₂ technology, OxiMax®

Unique sensor with Digital Memory Chip. Every sensor is calibrated to it's own specific needs. Desaturation Event Reports in the sensor. Unique LoSaT™ provides highest accuracy range, expanding it from 60% to 100%

Exclusive SatSeconds[™] alarm management system lowers false alarms and workload for users.





IPX1 Level Waterproof



 Nuevo diseño de interfaz estéticamente agradable.



 USB, VGA, network and multifunctional interface



 Wall mount, rolling stand/trolley



 4400mAh Lithium polymer battery, over 4 hours of continuous work time



Anesthetic Gas

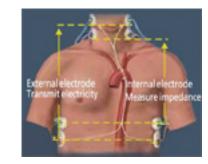
In collaboration with Phase-in of Sweden, the Datalys™ 780 adopts the advanced anesthetic gas module for monitoring 8 types of gas (O₂, CO₂, N₂O, ENF, ISO, DES, SEV, HAL). The module includes automatic recognition of the anesthetic gas, short warm-up time, long service life and support for the MAC value (minimum alveolar concentration).

EtCO₂

- The Datalys[™] 780 offers the plug and play EtCO₂ from Respironics.
- Select the Capnostat 5 mainstream sensor for optimal performance in monitoring intubated patients.
- Small, durable and lightweight, the mainstream sensor provides accurate and reliable monitoring for all intubated patients, from neonates to adults.
- No calibration is required
- Select the LoFlo sidestream sensor for monitoring non-intubated patients.
- Flexible and compact, the LoFlo CO₂ sensor provides consistent and reliable monitoring of adult, pediatric
- Sample rate ≤ 50ml/min (micro-stream).

Non-invasive Hemodynamic

- Collaborating with US BIOZ. The Datalys[™] 780 offers impedance cardiography for non-invasive continuous hemodynamic monitoring
- Micro-signal transmit through disposable electrodes.
- Measurement and display of ICG.
- DISQ® technology processes impedance signal variation caused by variations in blood volume and Blood flow velocity from heartbeat to heartbeat.
- Variation of impedance is applied to non-invasive Z MARC™ algorithm for acquiring SV, CO, SVR, contractility.



Intelligent Alarm

- I-KloK[™] intelligent alarm management allows auto identification of alarm level.
- Self adjust proper alarm time to reduce false alarms.

