Technical data

DIAGNOSTIC STATION DS20

System

Device
Dimensions: 460 x 275 x 77 mm (l/w/h)
Weight: 4.5 kg (with battery)

Ambient conditions
Temperature:
– Operation: 10 to 40 °C;
– Transport/storage: -10/+5 to 50 °C

Humidity:
– Operation: 15 to 95 % non-condensing
– Transport/storage: 10 to 95 % non-condensing

Pressure:
– Operating: 700 to 1060 hPa
– Transport/storage: 500 to 1060 hPa

Electrical data
Power: Mains or battery operation
Power supply: 100 to 240 VAC, 50 or 60 Hz
Power consumption: Approx. 100 VA (max)
Battery capacity: Operation time of approximately 2 hours
Battery charging time: Approximately 2.5 hours (80%)

Display
Colour matrix touch screen LCD, 18.5"
Resolution: 1366 x 768 dots

Interfaces & Communication
LAN: Ethernet 1 Gbit
USB: 6 x USB 2.0 (interfacing additional parameters and peripheral devices, e.g. USB memory, barcode reader, printer)
Serial communication ports: RJ-45 (x3), D-SUB 9 (x1)
WiFi: IEEE 802.11 a/b/g/n (2.4 and 5 GHz)
Connections:
– ECG patient cable
– SpO_2
– NIBP
– Digital weighing scale
– Strip chart recorder
– Temperature
– Spirometry

Measurement functions
Display: Numerical representation of the vital data. Graphical representation of ECG, respiration, peripheral pulse (PP)
Trend: Up to 1728 data records (24 hours at 1-minute intervals, and discrete measurements such as NIBP, TEMP, WEIGHT, and user-requested snapshots). The values can be recorded in tabular form in intervals of 1, 5, 15, 60, and 240 minutes.

Measured Values

ECG
Patient cable: 3-wire, 5-wire
Displayable Leads:
– 3-wire cable: I, II, III, (AVL, AVR, AVF)
– 5-wire cable: I, II, III, AVL, AVR, AVF, V

Resting ECG (Variants 2 M and 4 N)
12-lead resting ECG: With 10-wire cable, full 12-lead resting ECG with interval and axis measurements, and pacer detection
ETM (computer-aided ECG interpretation): ETM for adults and children

Rhythm ECG
Rhythm recording of user defined lead

Respiration
Method: Impedance Pneumography using ECG cable
Sensing Lead: II

NIBP
Method of measurement: Oscillometric with linear deflation rate.

SpO_2
Module / Sensor: Masimo™ Rainbow SET or Nellcor® OxiMax® sensor

DS20 Versions

Version 1 M:
ECG, Rhythm ECG, NIBP, SpO_2 (Masimo)

Version 2 M:
ECG, Rhythm ECG, NIBP, SpO_2 (Masimo), 12 lead resting ECG

Version 3 N:
ECG, Rhythm ECG, NIBP, SpO_2 (Nellcor)

Version 4 N:
ECG, Rhythm ECG, NIBP, SpO_2 (Nellcor), 12 lead resting ECG.

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DIAGNOSTIC STATION DS20

Options

Hardware
Trolley
Wall mount, desk stand

Pulse Wave Analysis (PWA)[1]
Standard oscillometric with linear deflation with additional 10 second oscillometric signal recording for PWA measurements.

Temperature
Sensor: Exergen (2.101050)

SpCO[1]
Continuous and noninvasive measurement of carbon monoxide concentration.

Weight
Patient Scales:
– Fairbanks Model 28142 TeleWeigh – Detecto Apex – Healthometer 500KL

Spirometry
Sensor: SCHILLER SP-250 with disposable single patient mouthpiece (2.100022)
Pulmonary tests: Forced Vital Capacity (FVC), Slow Vital Capacity (SVC), Maximum Voluntary Ventilation (MVV)
Diagnosis: International and American Norm standards with patient data

Communication
SCHILLER Server required – XML/PDF export to HIS/EMR

Standards

Certification
Type of protection (electrical): Class I
Degree of protection (electrical): CF, defibrillation protected
Degree of protection (water): IPX1
Notified body: CE 0123
EMC: HF immunity according to IEC/EN 61000-4-2, 61000-4-3, and 61000-4-8
Patient leakage current: meets specification according IEC/EN 60601-1
Safety standards: meets all IEC and AAMI standards for specific measurements

Warranty

Our general terms and conditions are available at www.schiller.ch.

1 Not for USA market

2 Masimo modules only (versions 1 M and 2 M)

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