



## 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<sub>2</sub>
- 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<sub>2</sub>

**Module / Sensor:** Masimo™ Rainbow SET or Nellcor® Oximax® sensor

### DS20 Versions

#### Version 1 M:

ECG, Rhythm ECG, NIBP, SpO<sub>2</sub> (Masimo)

#### Version 2 M:

ECG, Rhythm ECG, NIBP, SpO<sub>2</sub> (Masimo),  
12 lead resting ECG

#### Version 3 N:

ECG, Rhythm ECG, NIBP, SpO<sub>2</sub> (Nellcor)

#### Version 4 N:

ECG, Rhythm ECG, NIBP, SpO<sub>2</sub> (Nellcor),  
12 lead resting ECG.



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# DIAGNOSTIC STATION DS20

## Options

### Hardware

Trolley

Wall mount, desk stand

### Pulse Wave Analysis (PWA)<sup>1</sup>

Standard oscillometric with linear deflation with additional 10 second oscillometric signal recording for PWA measurements.

### Temperature

Sensor: Exergen (2.101050)

### SpCO<sup>1</sup>

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 to 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](http://www.schiller.ch).

1 Not for USA market

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



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