**Everything for cardiopulmonary functional diagnostics**

EN    We have healthy ideas.

medset
INNOVATION IN CARDIOLOGY

# Our hardware

## Our company profile

We are a medium-sized medical technology company founded in 1987.

With the introduction of the first digital ECG recorder, we established ourselves as a provider of high-quality products for cardiopulmonary functional diagnostics. We have developed and marketed innovative medical devices for medical practices and hospitals for over 30 years.

In addition to our PADSY software, we have several ECG amplifiers, suction systems, treadmills and bicycle ergometers in the resting and stress ECG range. You also have a choice between different recorders for long-term ECG and long-term blood pressure examinations. Spirometry rounds of our range, and we offer you a matching sensor for that.

We work closely with our manufacturers to offer high-quality products in our range. This constant exchange enables our products to be continuously further developed and adapted to market requirements.

The persistent will to meet the needs of medical practice while adapting quickly and innovatively to new challenges is our strength.

Since 2017, Medset has been part of the successful Zimmer MedizinSysteme GmbH in Neu-Ulm. This collaboration offers a broad basis for exciting developments — both for our customers and for each individual colleague.
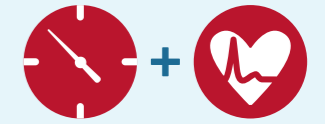
**Medset — Innovative manufacturer of software for functional diagnostics!**

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## ECG TIME

### The best result with maximum comfort

- A small, lightweight recorder that is very comfortable to wear

- Three high-quality ECG channels and pacemaker detection

- Display of names and ECG channels on the colour display

- Easy connection to **PADSY Holter**

## ECG TIME S/S*Accu*

### A new dimension of comfort and performance

- The patch recorder's ergonomic shape makes it very comfortable to wear

- Wireless, small and light

- Storage capacity of up to 60 days

- Easy to configure, commission and use

- Bluetooth interface

- Easy connection to **PADSY Holter**

Exemplary illustration;
application identical for both recorders

# ECG TOP D/BT

## 12-lead ECG amplifier for resting and stress ECGs

# ECG AIR/AIR BT

## Modern and mobile suction unit technology

- Design and innovation in one product
- Mobile working
- Connectable to standard suction systems with an HDMI plug
- Inductive charging
- High sampling rate for very good signal quality
- Pacemaker spike detection
- Optionally usable via USB and BT
- Easy connection to **PADSY ECG/Ergo**

- A new dimension of signal quality
- Optionally with integrated ECG amplifier
- Continuously adjustable negative pressure
- Quiet operation
- Hygienic thanks to integrated cleaning
- Mobile, flexible and adaptable
- Various mounting holders (table, trolley, wall, couch)
- Easy connection to **PADSY ECG/Ergo**
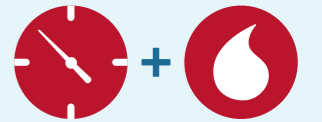
# ECG MOBILE/CARDIOTAB 2
*by CardioShield*

## Compact 12-channel ECG devices for greater flexibility

PADSY

WORKLIST

### ECG Mobile

- A small, lightweight recorder for mobile working

- Simple and intuitive to operate – quick to start-up, even without a computer

- Secure ECG leads via integrated electrode contact measurement

- Data transmission via WLAN

### CardioTab 2

- Design and convenience in one device

- A modern, compact recorder for home and nursing facility visits

- Flexible ECG printing regardless of location

- Data transmission via (W)LAN

- Worklist feature – easy to integrate into **ECG Worklist**

- Easy connection to **PADSY ECG**

# SCANLIGHT BY IEM

## The efficient long-term blood pressure system

- Oscillometric measurement method

- Low initial pressure and short measuring times

- Day/night button for individual sleep and wake phases

- Analysis of systole, diastole, MAP, HBP and pulse

- Assistant for quick recorder preparation
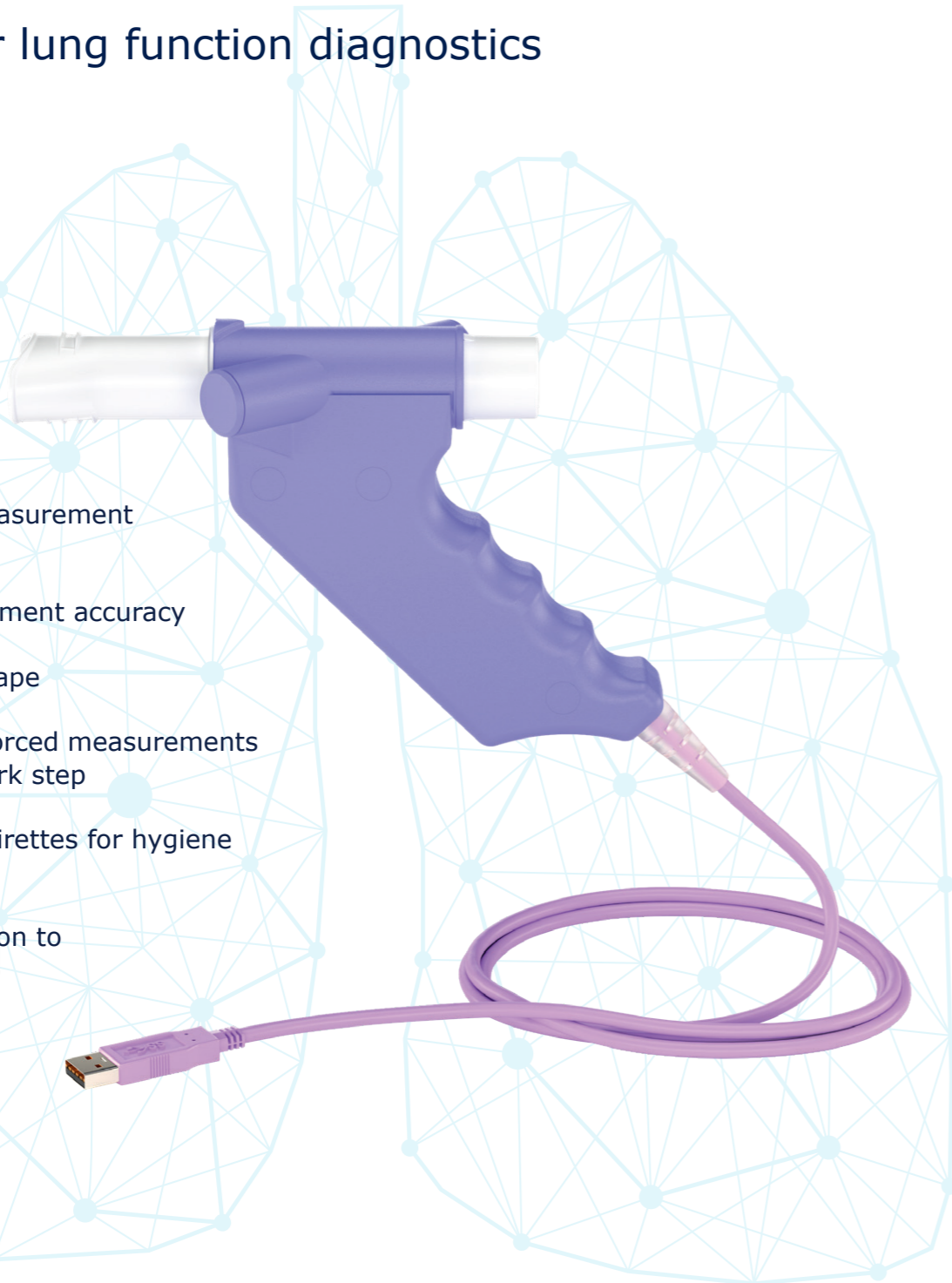
- Easy connection to **PADSY RR**

# PADSY Spiro

# SPIRO-SP TRUEFLOW SENSOR

## Sensor for lung function diagnostics

- Ultrasonic measurement technology
- High measurement accuracy
- Ergonomic shape
- Resting and forced measurements in a single work step
- Disposable spirettes for hygiene and safety
- Easy connection to **PADSY Spiro**

## ECG Time

### General
- Recording time: 1, 2 or 3 days
- Dimensions: 67 x 53 x 15.5 mm
- Weight: 40 g
- Power supply: 1 x AAA battery
- Data storage: SD card
- Data transfer: SD card

### Technical specifications
- Pacemaker spike detection: yes
- Sampling rate: 256 Hz
- Signal resolution: 12 bit
- 3 channels with 5-pin cable

## ECG Time S/S*Accu*

### General
- Operating time with only one battery/charge:
  up to 9 days (ECG Time S)
  up to 12 days (ECG Time S*Accu*)
- Storage capacity of up to 60 days
- Dimensions:
  ECG Time S: 71,5 x 46 x 14,7 mm
  ECG Time S*Accu*: 50 x 50 x 13,5 mm
- Weight:
  ECG Time S: 30 g
  ECG Time S*Accu*: 23 g
- Power supply: 1 x AAAA battery or rechargable version
- Data storage: internal
- Data transmission: BT and micro USB

### Technical specifications
- Pacemaker spike detection: yes
- Sampling rate: ≥ 200 Hz
- Signal resolution: 16 bit
- Patch recorder with 3 ECG channels

## ECG TOP D/BT

### General
- Dimensions: 115 x 90 x 33 mm
- Weight: 200 g
- Power supply: USB/Lithium Polymer Akku
- Data transfer: BT or USB-A

### Technical specifications
- Pacemaker spike detection: yes
- Sampling rate: 500 Hz, designed for up to 32.000 Hz
- Signal resolution: up to 24 bit
- Galvanic isolation/defibrillation resistance: 5 kV
- 12 ECG leads
- HDMI/SUB-D 15-pin adapter for suction system
- HDMI connection for patient cable
- Press button adapter optional

## ECG Air/Air BT

### General
- Swivel arm dimensions: 110 x 16 x 37 cm
- Overall height: 168 cm
- Weight: 7 kg
- Suction system: 30 to 200 hPa (± 10%)
- Power supply: mains plug
- Data transmission: BT or depending on the amplifier

### Technical specifications
- Pacemaker spike detection: yes
- Sampling rate: 500 Hz, internal 32 kHz
- Signal resolution: 16/24 bit (depending on sampling rate)
- Galvanic isolation/defibrillation resistance: 5 kV
- 12 ECG leads

## ECG Mobile *by CardioShield*

### General
- Storage capacity: up to 200 recordings
- Dimensions: 126.5 x 75.8 x 24 mm
- Weight: 168 g
- Power supply: integrated battery
- Data storage: internal
- Data transfer: WLAN

### Technical specifications
- Pacemaker spike detection: yes
- Sampling rate: up to 10.24 kHz
- Signal resolution: up to 24 bit
- Galvanic isolation/defibrillation resistance: 5 kV
- 12 ECG leads

## Cardio*Tab 2*

### General
- Storage capacity: up to 1,500 recordings
- Dimensions: 275 x 230 x 47.5 mm
- Weight: 1.6 kg
- Power supply: integrated battery/mains plug
- Battery power: min. 4 hours (continuous operation)
- Data storage: internal, SD card or USB stick
- Data transfer: (W)LAN or USB-A

### Technical specifications
- Pacemaker spike detection: yes
- Sampling rate: up to 32 kHz
- Signal resolution: up to 24 bit
- Galvanic isolation/defibrillation resistance: 5 kV
- 12 ECG leads
- Monitor: 10.4-inch LCD colour screen
- Printing method: integrated thermal head printing

## Scanlight by IEM

### General
- Storage capacity: up to 300 measurements
- Dimensions: 128 x 75 x 30 mm
- Weight: 167 g (without batteries)
- Power supply: 2 x AA batteries or rechargeable NiMH batteries 1,2 V
- Data storage: internal
- Data transfer: serial or USB-A

### Technical specifications
- Measuring method: oscillometric
- Measuring range: systolic 60 – 290 mmHg, diastolic 30 – 195 mmHg ± 3 mmHg
- Pulse rate: 30 – 240 beats/min.
- Measurement intervals: 1, 2, 3, 4, 5, 6, 10, 12, 15, 20 or 30 measurements/hour

## Spiro-SP TrueFlow Sensor

### General
- Dimensions: 160 x 120 x 70 mm (only sensor)
- Weight: 140 g (cable included)
- Power supply: USB
- Power supply and data transfer: USB

### Technical specifications
- Measuring method: ultrasonic transit time measurement
- Sampling rate: 400 Hz
- Flow resistance: < 1,5 cm $H_2O$/l/s at 14 l/s
- Disposable spirettes

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