

ULTRASONIC-DOPPLER

SmartDop 45

With graphic display, printer and memory

compact, handy and mobile.



Features And Benefits

- Great graphic display for flow, data, settings and menu.
- Fast thermo array printer (no movable printer mechanism)
- Flow representation of quantity and quality in bidirectional operating mode.
- Active 8 MHz US-probe with integrated push button for data storage and printer initialization
- Excellent adjustable audio amplifier with great selectivity between flow and noise.
- Automatic amplification of flow signal for optional representation in the display.
- Signal output for stethoscope/headset and USB-computer interface. (software as option)
- Memory for 30 data sets with 4 seconds signal each.
- Practical multi-functional switch for comfortable menu function.
- Important data as systolic and diastolic flow speed as well as RP, SD, PI and HR are automatically calculated.
- Flow representation in cm/s or kHz.
- 2 separate frequency filter for perfect flow output..
- Alternatively flow representation in 2.56 s/display width or 12.8 s/display width.
- Battery or mains-operated.
- Optional interchangeable probes are available for many applications: 2 MHz, 4 MHz, 5 MHz, 10 MHz, photoplethysmography-probe, intra-operative probe with additional amplifier.

Filter: 80 Hz, 200 Hz - 5 kHz

Smartdop 45



Technical specifications

Power supply: Mains/rechargeable battery (Ni-MH), Operation time with charged battery: about 2,5 hours
Charging time: ca. 3 hours, Life time of rechargeable battery: about 300 charging cycles

Printer: Thermo-array-printer (fast documentation, no movable printer components)
Resolution: 384 dots/line, 25 mm/s
Paper: 58 mm x 25 m

Graphik-display: 128 x 64 pixels, STN LCD (55 x 30 mm)
Flow-curve (directional/bi-directional, 2.56/12.8 seconds/display-width), flow data (RP, PI, SD, HR (30 - 300 beats/min), menu for basic settings, functions and battery control

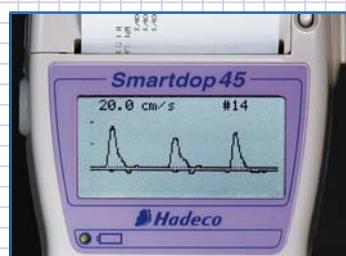
Flow curve: Amplitude in cm/s or kHz, directional/bi-directional, 2.56 or 12.8 seconds/display width

Accuracy: +/- 10% or less

Speaker: 250 mW or more

External output: Stethoscope/headset, USB (universal serial bus)

Automatic shut off: No signal: after 2 minutes, memory mode: after 5 minutes, other mode: after 15 minutes



Large graphic display for signal, data and settings.



Multi-funktion-button for nearly all functions.

Mode settings: Memory, flow, direction, time, language, units, filters, calibration, shut off and others

Memory: 30 data sets

Production standard: IEC 601-1

Protection class against electrical shock: Class II device internally powered device

Protection grade against electrical shock: Type BF device

Dimensions: 115 x 210 x 60 mm (W x D x H)

Weight: 560 g, including probe

Environment: operating temperature: 10 °C - 40 °C
Storage temperature: 0 °C - 50 °C
Relative humidity: 85 %
(no condensation)

Specifications subject to change without notice.

Standard delivery:

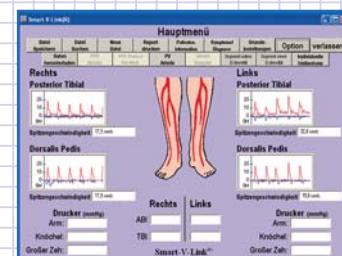
Smartdop 45
8 MHz probe
1 battery charger/mains adapter
1 tube US Gel, 20 g
1 roll recording paper
1 case
1 manual

Optional accessories:

2 MHz US probe
4 MHz US-probe
5 MHz US-probe
10 MHz US-probe
Photoplethysmography probe, PG 21
8 MHz intra-operative probe, VRP-08
Amplifier for intra-operative probe, BDP08MS8
PC-software including USB link cable



8 MHz intra-operative probe, plethysmography probe, (optional)



Comfortable PC-Software for investigations at the PC. (optional)

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