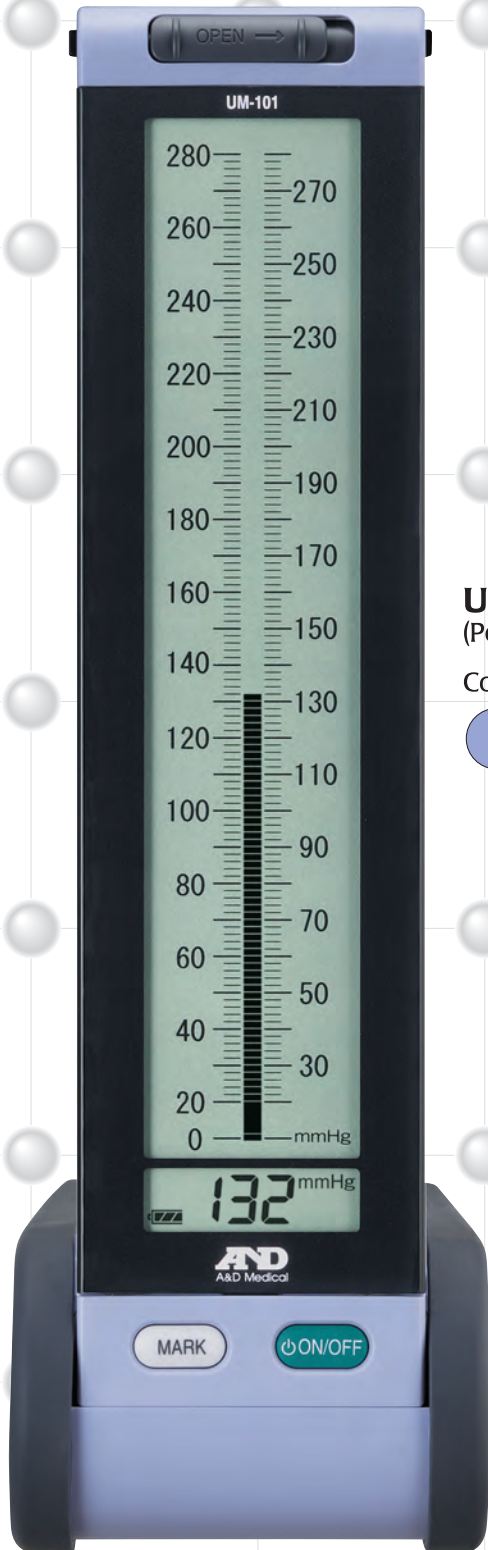


MERCURY-FREE SPHYGMOMANOMETER

UM-101

Clinically
Validated

**MERCURY
FREE**

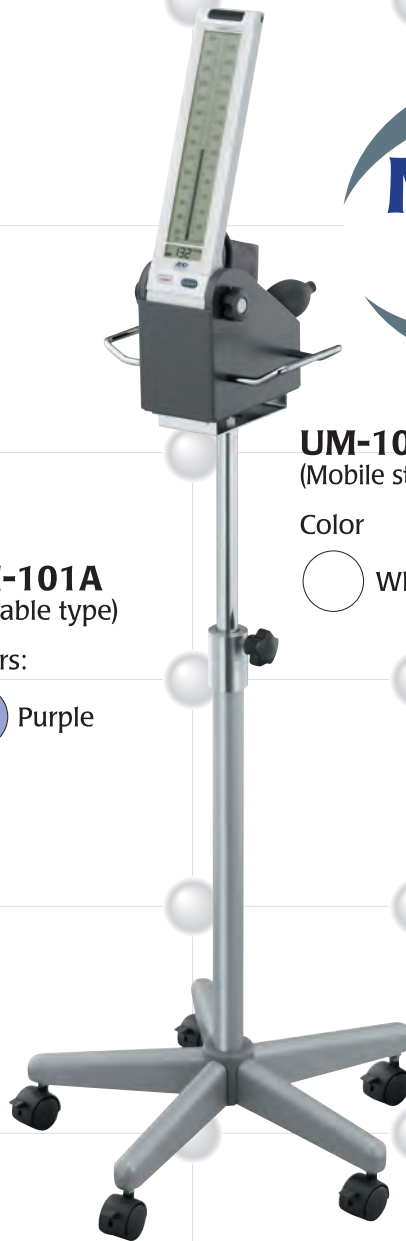


UM-101A (Portable type)

Colors:



Purple



UM-101B (Mobile stand type)

Color



White

- Auscultatory blood pressure measurement without mercury
- Digital readout for pulse rate
- Adjustable display column for easier analysis of results
- Choice of two types (portable or mobile stand) to suit diverse requirements



A&D
A&D Medical

Technology You Can Trust



MERCURY-FREE SPHYGMOMANOMETER UM-101

The UM-101 mercury-free sphygmomanometer opens up a completely new era of professional blood pressure measurement. In 1905, Dr. Nikolai S. Korotkov introduced his theory of blood pressure measurement using the Riva-Rocci mercury monitor. Since then, blood pressure measurement using the mercury column has been regarded as the gold standard of blood pressure measurement. This method known as the "Korotkov method" or "auscultatory method" is used for daily blood pressure monitoring by healthcare professionals worldwide. Recently, awareness of the issue of environmental conservation has been increasing and the use of mercury has become a worldwide concern. Mercury is a toxic metal that can poison whole communities and remain in the local environment for many years creating serious health risks. Therefore, the banning of mercury is essential in order to maintain a clean and safe environment. As a leading manufacturer of blood pressure monitors, A&D is responding to the call from the international medical community to ban the use of this toxic metal and has developed a new, highly advanced digital blood pressure monitor. The UM-101 was designed to be used as an alternative to the mercury column, while at the same time preserving the local environment and creating an easy-to-use product for clinical personnel.

Auscultatory blood pressure measurement without mercury

The UM-101 inherits the appearance of conventional mercury columns so there is no confusion even if you are using this device for the first time. The only difference is that the user has to press the ON/OFF button to activate the unit before commencing BP measurement. No liquid is used in this device and therefore handling it is easier than its counterparts. The problem of a slow mercury response, due to clogging of the filter in the glass tube, does not exist because the UM-101 effortlessly delivers quick and easy-to-read digital results.

Choice of portable or mobile stand type to suit diverse requirements for professionals

Two separate versions of the UM-101 are available. We provide a standard portable model as well as a mobile stand version. The UM-101B (mobile stand type) combines the benefits of A&D's mercury-free sphygmomanometer with mobility by mounting the BP monitor on a 5-leg adjustable mobile stand. The cuff and bulb can be placed in a small compartment on the stand offering more efficient BP measurement, and two small handrails provide extra mobility. Both the UM-101A and the UM-101B are equipped with an adjustable display column for clearer visibility from any position.

Digital readout for pulse rate

The UM-101 is equipped with a small numerical display at the base of the digital column. This numerical display shows the pressure itself while it is increasing or decreasing. When a measurement is completed (below 20mmHg), the patient's pulse rate is displayed automatically. This time-saving function is very practical because the patient's blood pressure and pulse rate are measured simultaneously.

Adjustable display column for easier analysis of results

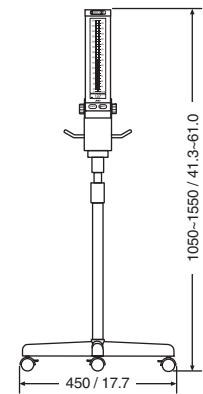
Unlike a mercury column, you can adjust A&D's digital column to your preferred position by choosing from 4 different angles (ranging from 0 to 90 degrees). There is no need for you to twist your head or lean over to view your readings! You can even put the UM-101 on a patient's bed and take an accurate measurement after adjusting the column to your selected angle. (The device does not have to be placed on a flat surface.)



UM-101A

External Dimensions (mm/inches)

UM-101B



Specifications

Type	UM-101A / UM-101B
Measurement method	Auscultatory measurement
Numerical display measurement range	Pressure: 0 - 300 mmHg Pulse: 30 - 200 beats / minute
Pressure bar display measurement range	Pressure: 20 - 280 mmHg
Measurement accuracy	Pressure: ± 3 mmHg Pulse: $\pm 5\%$
Power supply	2 x 1.5V alkaline batteries (LR6 or AA)
Upper arm circumference	23 - 33 cm using the medium cuff
Classification	Type BF
EMC	IEC 60601-1-2: 2001
Operating condition	+10°C to +40°C / 30%RH to 85 %RH
Storage condition	-20°C to +60°C / 30%RH to 85 %RH
Dimensions	Approx. 98 (W) x 323 (H) x 66 (D)mm - 101A Approx. 450 (W) x 1,050-1,550 (H)mm - 101B
Weight	Approx. 1.0kg - 101A Approx. 4.5kg including stand - 101B

Options and accessories

- AX-UM-101-01 Medium cuff 23 cm to 33 cm
- AX-UM-101-02 Small cuff 16 cm to 23 cm
- AX-UM-101-03 Large cuff 33 cm to 51 cm
- AX-UM-101-10 Rubber bulb assy. (Rubber bulb, exhaust valve & end valve)



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