



Blood Ammonia Meter

# PocketChem BA

PA-4140



Measurement can be  
conducted on the palm immediately

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**All functions needed for measuring blood ammonia level are integrated into a palm-sized device.**

## **Whole-blood measurement**

PocketChem BA realizes whole blood measurement without pretreatment. The level of blood ammonia that is susceptible to room temperature can be measured right after collecting blood.

## **Small sample volume**

Required amount for measurement is only 20 $\mu$ L.  
No special collection tube is necessary.

## **Palm size and compact design**

The weight of the analyzer is approx. 150 g (not including batteries). The weight of the palm-sized analyzer is just 150 g .

## **Detachable printer**

A printer (optional) can be detached from the analyzer. Hard copy of measurement result can be obtained if you connect a printer to analyzer. Printer and AC adapter can be used commonly with Comapct Urine Analyzer PU-4010.

## **Battery driven**

Analyzer can be operated by two AA batteries or with AC adapter.

\* The AC adapter is needed when using the printer.

## **Easy-to-maintain**

All what you need to clean daily is the removable strip holder. Implementation of LED for light source eliminated a complicated lamp replacement.

## **Temperature compensation**

Built-in temperature sensor automatically compensates for temperature in the range of 10 - 35 $^{\circ}$ C .

## **Data management function**

Up to 50 measurement results can be memorized. Using serial communication function (RS-232C), measurement results can be transferred to PC.

## Performing a test



Drop a blood sample on the test strip and press start key.



When buzzer sounds after 180 seconds, rip off the spacer part of the test strip.



Place the test strip with the spacer part ripped off on the test strip tray.



Measurement result will be shown.



Hard copy of measurement result can be obtained by connecting a printer.

## PocketChem BA size

Compact size



Meter : 124 (width) × 85 (depth) × 38 (height) mm  
Printer : 125 (width) × 133 (depth) × 36 (height) mm

## The exclusive test strip

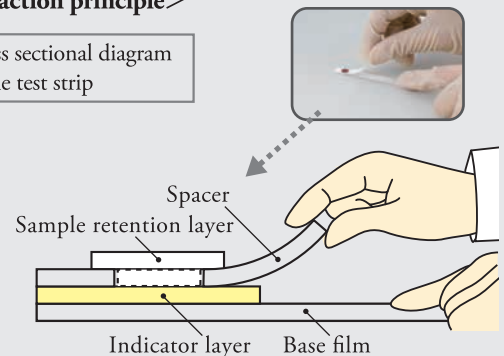
### Ammonia Test Kit II

Dry chemistry based on a microdiffusion method provides high-precision measurement with whole blood.



### <Reaction principle>

Cross sectional diagram of the test strip



1. Drop a sample on sample retention layer.
2. Ammonium ion in a sample turns into ammonia gas to pass through the spacer.
3. Indicator layer reacts to ammonia gas to give a color.
4. Measure the reflected light to obtain the level of color with PocketChemBA.

**Compact Urine Analyzer****PocketChem UA**  
PU-4010

Renal disease screening becomes possible even with spot urine

**PA-4140 specifications**

Sample	Whole blood
Test strip	AMMONIA TEST KIT II
Measurement item	Blood ammonia concentration
Measurement range	10 to 400 N - $\mu\text{g}$ / dL
Measurement principle	Test strip, Single wavelength reflectance method
Measurement wavelength	Single wavelength LED (635 nm)
Sample supply method	Dropping with pipette
Reaction time	Approx. 3 minutes and 20 seconds per test
Warm-up time	Max. 10 seconds
Measurement types	Normal measurement, continuous measurement and check measurement
Display	LCD
Memory capacity	Test results for 50 samples
External output	RS-232 C compliant
Thermal compensation	Automatic compensation using a built-in temperature sensor
Operating environment	Temperature: 10-35 °C ; Humidity : 25 - 85 % RH
Dimensions	Instrument: 124 (W) $\times$ 85 (D) $\times$ 38 (H) mm
Weight	Approx. 150 g (not including batteries)
Power supply	Instrument: Two AA batteries or AC adapter 7.5 VDC 3A
Power consumption	Battery power : 0.15 W (AC power : 4 W)

**Printer specifications**

Printer	Thermal line printer
Printer paper	High color development thermal paper (W 58 mm $\times$ $\phi$ 26 mm)
Dimensions	125 (W) $\times$ 133 (D) $\times$ 36 (H) mm
Weight	180 g (not including printer paper)
Power supply	AC adapter 7.5 VDC 3A
Power consumption	20 W

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\*Designs and specifications may be changed without prior notice.

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