



With auto-sampler type



Without auto-sampler type

Electrolyte Analyzer IoNEX

Measurement sample	Whole blood, Serum, Plasma, Diluted Urine, Hemo-Dialysis Solution A (Acid Concentrates), Solution B(Bicarbonate), Solution A+B Balanced					
Measurement	Selectable from the following types. (※1) : pH measurement needs temperature control unit ① Na ⁺ , K ⁺ ② Na ⁺ , K ⁺ , Cl ⁻ ③ Na ⁺ , K ⁺ , Ca ²⁺ ④ Na ⁺ , K ⁺ , pH (※1) ⑤ Na ⁺ , K ⁺ , Cl ⁻ , Ca ²⁺ ⑥ Na ⁺ , K ⁺ , Cl ⁻ , pH (※1) ⑦ Na ⁺ , K ⁺ , Ca ²⁺ , pH (※1) ⑧ Na ⁺ , Cl ⁻ , K ⁺ , Ca ²⁺ , pH (※1)					
Calculated item	Corrected Ca ²⁺ at 37°C in the temperature control unit					
Measurement Range	Whole blood, Serum, Plasma	Urine	Hemo-Dialysis Solution A+B Balanced	Hemo-Dialysis Solution A	Hemo-Dialysis Solution B	
Na ⁺ mmol/L	70.0 ~ 200.0	10 ~ 500	130.0 ~ 150.0	100.0 ~ 120.0	20.0 ~ 40.0	
K ⁺ mmol/L	1.00 ~ 20.00	1.0 ~ 200.0	1.00 ~ 3.00	1.00 ~ 3.00	—	
Cl ⁻ mmol/L	70.0 ~ 200.0	10 ~ 550	100.0 ~ 120.0	100.0 ~ 120.0	—	
Ca ²⁺ mmol/L	0.50 ~ 3.00	—	0.50 ~ 3.00	0.50 ~ 3.00	—	
pH	7.00 ~ 8.00	—	—	—	—	
Measurement conditions	Whole blood, Serum, Plasma : pH = 7.0 ~ 8.0 (*in the condition of no change during measurement) Dialysis Solution : Please measure within the time of use described in the package insert of your dialysates					
Sample volume	Whole blood, Serum, Plasma : 100 μL		Hemo-dialysis Solution : 300 μL			
Measurement speed	①Without temperature control unit : 35 seconds/sample ②With temperature control unit : 60 seconds/sample					
Calibration	Two-point automatic calibration (interval is adjustable)					
Auto sampler	Available to set 20 samples (※If you choose With auto-sampler type)					
Power	AC 90~260 V, 1.2~0.5 A, 47~63 Hz (AC adpoter)					
Dimensions	Body : 27 (W) × 34.5 (D) × 36.5 (H) cm ,Approx. 8 kg		AC adpoter : 14.6 (W) × 7.6 (D) × 4.3 (H) cm ,Approx. 0.5 kg			
Others	On-line connection : RS232C, available to out put by CSV Data memory : 10,000 patients data Thermal printer : built-in Barcode reader : option Display : color TFT-LCD, Touch panel : resistance film type					

●Specification is subject to change.



JOKOH CO.,LTD.
3-19-4 Hongo, Bunkyo-ku, Tokyo 113-0033, JAPAN
Phone :+81-3-3814-1717
Fax :+81-3-3815-1759
Email :worldwide@jokoh.com
Website :http://www.jokoh.com/en

Customize IoNEX to meet your needs. IoNEX can measure Ca^{2+} and pH more accurately by the temperature control function (* 1) of the electrode part.

(* 1) The temperature control function is available when the temperature control unit is selected.



Control temperature to make measurement more stable and accurate.

- The pH required to calculate the corrected Ca^{2+} is an item that is particularly affected by temperature.
- By controlling the temperature of the electrode part, more accurate and stable calculation of the corrected Ca^{2+} value becomes possible.

The screen is large and easy to press and can be operated with gloves.



The electrode set can be selected from 8 combinations.

- ① Na^+, K^+
- ② $\text{Na}^+, \text{K}^+, \text{Cl}^-$
- ③ $\text{Na}^+, \text{K}^+, \text{Ca}^{2+}$
- ④ $\text{Na}^+, \text{K}^+, \text{pH}$
- ⑤ $\text{Na}^+, \text{K}^+, \text{Cl}^-, \text{Ca}^{2+}$
- ⑥ $\text{Na}^+, \text{K}^+, \text{Cl}^-, \text{pH}$
- ⑦ $\text{Na}^+, \text{K}^+, \text{Ca}^{2+}, \text{pH}$
- ⑧ $\text{Na}^+, \text{K}^+, \text{Cl}^-, \text{Ca}^{2+}, \text{pH}$

Traceable and more accurate measurement is possible by using ampoule calibration solution together.



- JOKOH has a lineup of multiple ampoule calibration solutions for dialysate according to the measurement target.
- By calibrating according to the application, an optimized calibration curve is created and more accurate measurement is possible.



Common reference standard substance for dialysate measurement (JCCRM300) Traceable

Relationship between blood Ca and pH

- Ca in the blood is divided into an ionized group and a group bound to proteins, etc., and the ionization ratio changes depending on the pH.
- The corrected Ca^{2+} value is calculated by measuring the pH at the same time.
- Other newly developed high sensitive electrodes also allow only one time calibration in a day to obtain very accurate result of C.V. $\leq 0.5\%$, as well.

Uses a touch panel color LCD

- The screen has excellent visibility, and you can see the device status and measurement mode at a glance.
- A large screen has been adopted for ease of use. Since it is a resistive film type, it can be operated even with gloves on.

Supports measurement of 3 types of dialysate

- Since it has 3 dialysis modes, it is possible to measure 3 types of dialysate as standard.
- In addition, it has multiple measurement modes such as blood mode and Urine mode.