

Accurate **Reliable**  
Save  
Easy to use

# Neo-ISE Type A

**Touch  
Screen**



- Na, K, Cl
- Advanced ISE technology
- Touch screen
- Autosampler
- All available parameters:  
K, Na, Cl, iCa, nCa, Tca,  
pH, Li, Mg, TCO<sub>2</sub>, AG

**ION SELECTIVE ANALYZER**

 **NeoMedica**  
bioscience technology

YOUR RELIABLE IVD MANUFACTURER



## ION SELECTIVE ANALYZER

# Neo-ISE

# Type A Type B

### High speed and accurate

## Ion Selective Electrode Analyzer by NeoMedica

- Neo-ISE Type A analyzer is basic model of ISE analyzer with Na, K, Cl electrodes  
Neo-ISE Type B analyzer is advantage model with various combination of electrodes:  
K, Na, Cl, iCa, nCa, Tca, pH, Li, Mg, TCO2, AG
- The instrument is intended use in hospitals to measure  
K, Na, Cl, Li, Mg, Ca, nCa, Tca and TCO2 as well as pH values, AG in samples  
of whole blood, serum, plasma, urine solution (diluted)
- The device is equipped with an accurate in-built reagent pack which can be disposed easily.  
Direct ISE technology offers easy handling, economical testing of a variety of ISE parameters and requires  
only minimal maintenance.
- The incorporated printer, coupled with LCD touch screen enhance the ergonomics in operations.
- Reagents are supplied in packs which plug into the side of the unit with no user contact to waste material.  
The unit contains a possibility to track and monitor the quantity of reagent remaining.

**Neo ISE analyzers offers 12 different configuration.**  
**Neo ISE Type A is standard configuration with K, Na, Cl.**  
**Neo ISE Type B offers 10 possible configuration.**

### AVAILABLE MODELS

| Instrument Type | PARAMETERS                                     |
|-----------------|--|
| Neo ISE Type A  | K, Na, Cl                                      |
| Neo ISE Type B  |  |
| combination 2   | K, Na, Cl, TCO2                                |
| combination 3   | K, Na, Cl, iCa, nCa, TCa, PH                   |
| combination 4   | K, Na, Cl, iCa, nCa, TCa, PH, TCO2, AG         |
| combination 5   | K, Na, Cl, Li                                  |
| combination 6   | K, Na, Cl, iCa, nCa, TCa, PH, Li               |
| combination 7   | K, Na, Cl, iCa, nCa, TCa, PH, Li, TCO2, AG     |
| combination 8   | K, Na, Cl, Mg                                  |
| combination 9   | K, Na, Cl, iCa, nCa, TCa, PH, Mg               |
| combination 10  | K, Na, Cl, iCa, nCa, TCa, PH, Mg, TCO2, AG     |
| combination 11  | K, Na, Cl, iCa, nCa, TCa, PH, Li, Mg, TCO2, AG |

**Color TOUCH SCREEN**  
**Long-lasting electrodes**  
**Automatic selection and calibration**  
**Fast Analysis**





**K+ Na+ Cl- iCa nCa TCa pH Li+ TCO2 AG**

**BLOOD GAS**



**MEASURING RANGE AND MEASURING PROCEDURE**

| Items | Measuring range   | Resolution  | CV     |
|-------|-------------------|-------------|--------|
| K+    | 0.5-15.0 mmol/L   | 0.01 mmol/L | ≤ 1,5% |
| Na+   | 30.0-200.0 mmol/L | 0.1 mmol/L  | ≤ 1,5% |
| Cl-   | 20.0-200.0 mmol/L | 0.1 mmol/L  | ≤ 1,5% |
| Ca2+  | 0.10-6.0 mmol/L   | 0.01 mmol/L | ≤ 2,0% |
| Li    | 0.10-6.0 mmol/L   | 0.01 mmol/L | ≤ 3,0% |
| pH    | 4.00-9.00 mmol/L  | 0.01 pH     | ≤ 2,0% |
| TCO2  | 5.0-70.0 mmol/L   | 0.1 mmol/L  | ≤ 3,5% |
| Mg    | 0.10-6.0 mmol/L   | 0.01 mmol/L | ≤ 3,0% |

**CLINICAL ELECTRODE RANGE**

| Items | Serum                | Urine          |
|-------|----------------------|----------------|
| K+    | 3.5-5.2 mmol/L       | 50-100 mmol/L  |
| Na+   | 136-145 mmol/L       | 130-217 mmol/L |
| Cl-   | 96-106 mmol/L        | 170-250 mmol/L |
| Ca2+  | 1.09-1.35 mmol/L     |                |
| TCO2  | 20-33 mmol/L (Adult) |                |

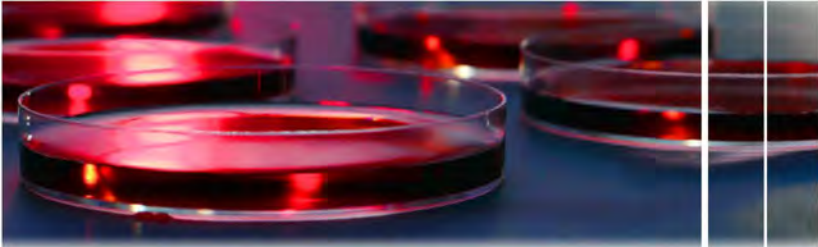
**REAGENTS**

- An innovative reagents with a long shelf-life and improved packaging allows easy handling and extremely low consumption. Reagents Shelf life is up to 2 years

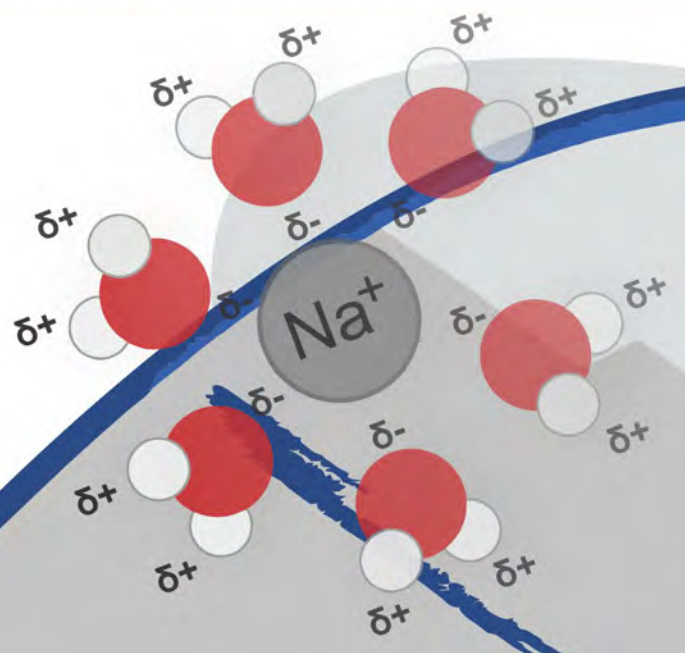
| CODE   | PRODUCTS           | PACK        |
|--------|--------------------|-------------|
| I11201 | Cleaner ISE-1      | 430 mL      |
| I11202 | Cleaner ISE-2      | 70 mL       |
| I11203 | Cleaner ISE-3      | 110 mL      |
| I11305 | Detergent ISE-1    | 10 mL       |
| I11306 | Detergent ISE-2    | 110 mL      |
| I11307 | Detergent ISE-3    | 25 mg + 1mL |
| I11308 | Detergent -Test    | 110 mL      |
| I11309 | Detergent Solution | 3 mL        |



**Reliable and Efficient.  
Compact, Economical and Perfect.**

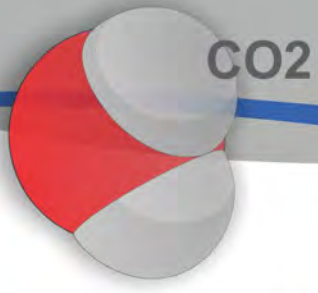


# ION SELECTIVE ANALYZER



# Neo-ISE Type

|                  |                                      |
|------------------|--------------------------------------|
| Principle        | Direct ISE measurement               |
| Throughput       | 144 sample/h ( 25 sec/sample )       |
| Sample type      | w. blood, serum, plasma, dil. urin   |
| Sample volume    | 60 µl                                |
| Calibration      | 1 or 2 point calibtarion             |
| Display          | 7" TFT colour LCD Touch screen       |
| Printer          | Internal termal printer              |
| Comunication     | RS 232 serial                        |
| Data storage     | 50000                                |
| Reagents         | Closed package with waste bag        |
| Reagents package | 430ml Cal A + 70ml Cal B + waste bag |

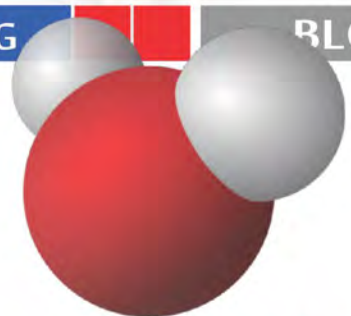




K+ Na+ Cl- iCa nCa TCa pH Li+ TC02 AG

BLOOD GAS

eA



8-

**Color TOUCH SCREEN**

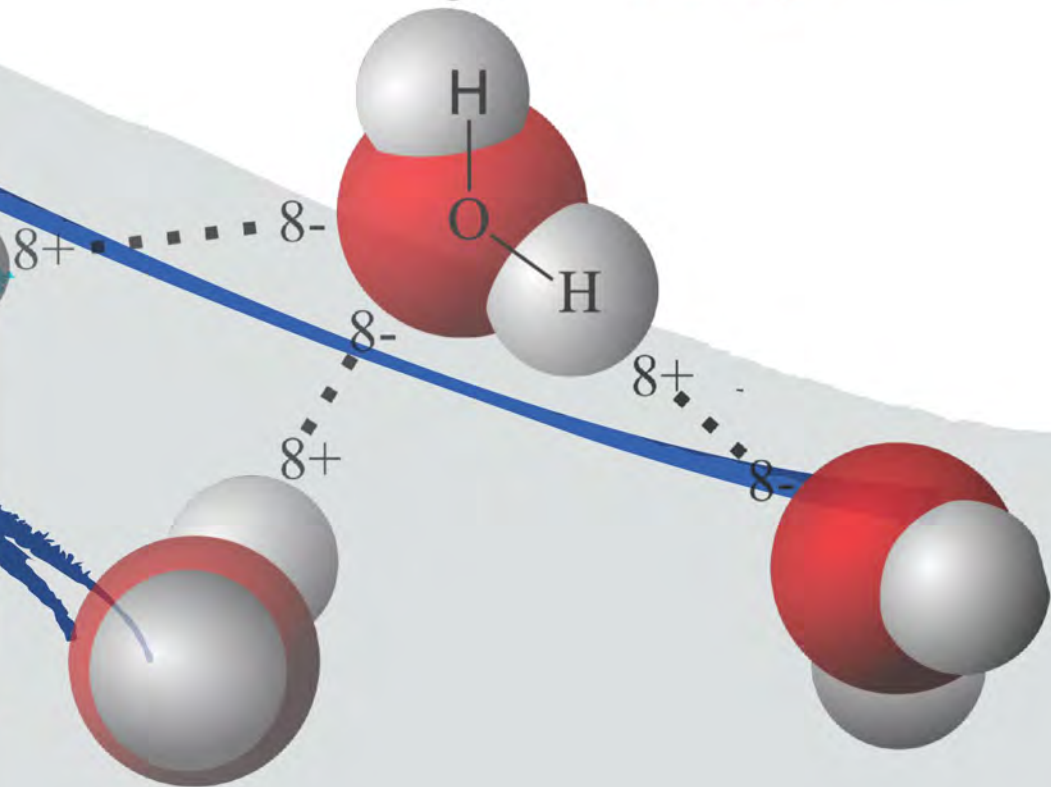
**Long-lasting electrodes**



**Automatic selection and calibration**

8+

**Fast Analysis**





# ION SELECTIVE ANALYZER

## ADVANTAGES

- Internal printer is fast and offers selectable reports Rs232 data connector.
- Normal value range is programmable
- Test Speed can be selected by user
- Calibration:
  - ISE calibration
  - CO<sub>2</sub> calibration
  - Two-point calibration
  - Slope
 User could change the calibration frequency for each sample or every 10 or 20 sample. Two-point calibration frequency can be adjustable.

User can define operative parameters, simple as click on button.

## ➤ Electrodes:

Electrodes can be activated by user. Shelf life of Electrodes is extended to maximum with activation by user.

With good maintenance Electrodes life time is 1 to 2 years.

Warranty for all electrodes (except Mg) is 12 months



## Auto sampler

Neo ISE analyzer offers manual mode and fully automatic mode with auto sampler. Auto sampler is optional and can be mounted easily by user, together with bar code scanner. Sample analysis by auto sampler can be tested in manual or automatic mode.



Auto sampler



Manual mode on auto sampler



Screen show: Automatic mode on auto sampler

Emergency analysis are easy available on 5 places clearly marked on auto sampler. Any position on rotor can be marked by user as sample.



K+ Na+ Cl- iCa nCa TCa pH Li+ TCO2 AG

BLOOD GAS

### TECHNICAL SPECIFICATIONS

#### PRINCIPLES

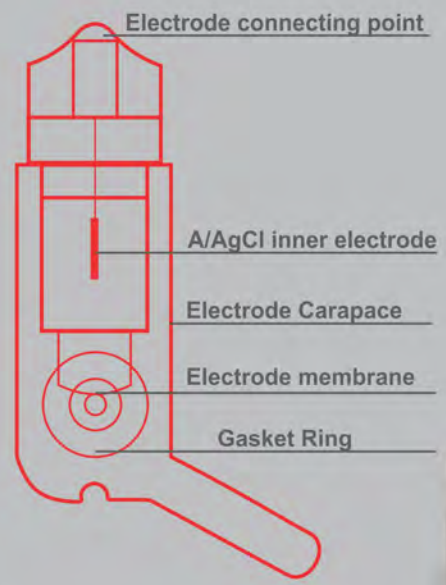
- Ion Selective Electrode direct measurement
- Touch screen. Color LCD
- Long life USA electrodes
- TCO2 Sensor
- Monitoring of remaining reagents
- Memory of 50.000 tests results
- USB, RS 232 port
- Auto sampler as Option
- Barcode Reader as option
- Automatic calibration
- Two-point correction to adjust slope and intercept
- multiformat printout
- QC graph printout
- Special sleep mode reduce reagent consumption
- Dimensions: 350x210x385mm
- Net Weight: 6kg, Gross Weight: 8kg

#### Normal working environment

- a) Temperature range (10-30°C)
- b) Relative Humidity: ≤ 70%
- c) Atmospheric pressure: (86~106) kPa
- d) Power voltage AC: 100-240V
- e) Power frequency: 50Hz-60Hz

#### Quality Control:

- QC Statistic, Mean, SD, CV
- Correction Factor, Auto correction,
- One-point correction, Two-point correction
- CO 2 correction



Reliable and Efficient.  
Compact, Economical and Perfect.



We are manufacturer, and global supplier of medical devices for In Vitro diagnostics.

Based in Europe, we implement highest standards in essential elements of our products - including manufacture, support in knowledge and effectiveness trough response time and good logistics.

In a brand new factory, introduced in 2013, diverse products are manufactured with unique purpose - to contribute to health around World.



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