

#### Appendix 4: RS-232 standard output interface description

##### (1) Features

Electrical specification: accord with EIA RS-232C

Stop bit: 1

Data bits: 8

Parity check bit: No

Transmission speed: 19200 baud

##### (2) Data format

001 000000000000000000 063 5.23 151.2 111.4 1.44 7.62

Note: Serial number+ Space +ID+ Space + Flag byte + Space +K<sup>+</sup> result +Space+ Na<sup>+</sup> result + Space + Cl<sup>-</sup> result + Space + Ca<sup>2+</sup> result + Space + PH result+ Space.

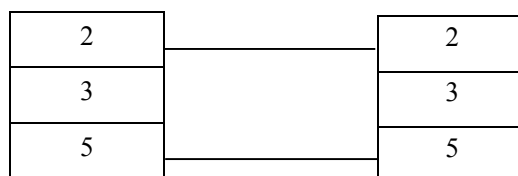
##### (3) Flag byte instructions:

Digit 7	Digit 6	Digit 4	Digit 3	Digit 2	Digit 1	Digit 0
1: Aspiration abnormal 0: Aspiration normal	1: Li <sup>+</sup> result 0: Cl <sup>-</sup> result	1: pH STD Not Pass 0: Ph STD Pass	1: Ca <sup>2+</sup> STD Not Pass 0: Ca <sup>2+</sup> STD Pass	1: Cl <sup>-</sup> STD Not Pass 0: Cl <sup>-</sup> STD Pass	1: Na <sup>+</sup> STD Not Pass 0: Na <sup>+</sup> STD Pass	1: K <sup>+</sup> STD Not Pass 0: K <sup>+</sup> STD Pass

##### (4) RS-232 interface connection

XI-921 electrolyte analyzer

PC



##### (5) Result transmission and format

Machine can print out test results and transit them in real time to computer by RS-232 port. The result which transited to computer is same as printed one. If results are not transited in time. User can click the key "Send data" to send them manually.