# LAQUA F-70/DS-70 series specifications

| | | F-71 | F-72 | F-73 | F-74 | F-74BW | DS-71 | DS-72 |
|---|---|---|---|---|---|---|---|---|
| pH | Measurement method | Galass electorode method | | | | | – | – |
| | Measurement range | pH 0.000～14.000 | | | | | – | – |
| | Display range | pH -2.000～19.999 | pH -2.000～20.000 | | | pH -2.000～19.999 | – | – |
| | Resolution | 0.001 pH | 0.01/0.001 pH | | | 0.001 pH | – | – |
| | Auto range select | – | ● | ● | ● | – | – | – |
| | Repeatability | ±0.005 pH±1 digit | ±0.001 pH±1 digit | | | ±0.005 pH±1 digit | – | – |
| | pH calibration point | 5 | 5 | | | 5 | – | – |
| | Repeatability check | ● | ● | ● | ● | ● | – | – |
| | Alarm limit of calibration | ● | ● | ● | ● | ● | – | – |
| | Periodical check | – | ● | ● | ● | – | – | – |
| mV (ORP) | Measurement range | ±1999.9 mV | | | | | – | – |
| | Resolution | 0.1 mV | | | | | – | – |
| | Repeatability | ±0.1 mV±1 digit | | | | | – | – |
| Temperature | Measurement range | 0.0～100.0°C (-30.0～130.0°C) | | | | | | |
| | Resolution | 0.1°C | | | | | | |
| | Repeatability | ±0.1°C±1 digit | | | | | | |
| ION | Measurement method | – | Ion electrode method | | | | – | – |
| | Measurement range | – | 0.00 µg/L～999 g/L（mol/L） | | | | – | – |
| | Resolution | – | Valid numbers 3 digits | | | | – | – |
| | Repeatability | – | ±0.5%F.S.±1 digit | | | | – | – |
| | Periodical check | – | ● | ● | ● | – | – | – |
| | Calibration curve point | – | 5 | 5 | 5 | 5 | – | – |
| | Addition method measurement | – | ● | ● | ● | – | – | – |
| Conductivity | Measurement method | – | – | – | 2 AC bipolar method | | | |
| | Measurement range (Display range) | – | – | – | Cell constant 100 $m^{-1}$: 0.000 mS/m～19.99 S/m<br>Cell constant 10 $m^{-1}$: 0.0 µS/m～1.999 S/m<br>Cell constant 1000 $m^{-1}$: 0.00 mS/m～199.9 S/m | | | |
| | Resolution | – | – | – | 0.05% of full scale | | | |
| | Repeatability | – | – | – | ±0.5%F.S.±1 digit | | | |
| | Change unit | – | – | – | ● | ● | ● | ● |
| | Distilled water temperature conversion | – | – | – | ● | ● | ● | ● |
| | Periodical check | – | – | – | ● | – | – | ● |
| | JP/EP/USP/CP Pharmaceutical water aplication | – | – | – | ● | – | – | ● |
| Salinity | Measurement method | – | – | – | Conversion from conductivity value | | | |
| | Measurement range (Display range) | – | – | – | 0.00～80.00 PPT (0.000%～8.000%) | | | |
| | Resolution | – | – | – | 0.01 PPT (0.001%) | | | |
| | Salt concentration calibration | – | – | – | ● | ● | ● | ● |
| Resistivity | Measurement method | – | – | – | Conversion from conductivity value | | | |
| | Measurement range (Display range) | – | – | – | Cell constant 100 $m^{-1}$ : 0.00 Ω・m～199.9 kΩ・m<br>Cell constant 10 $m^{-1}$ : 0.0 Ω・m～1.999 MΩ・m<br>Cell constant 1000 $m^{-1}$ : 0.000 Ω・m～19.99 kΩ・m | | | |
| | Resolution | – | – | – | 0.05% F.S. | | | |
| | Repeatability | – | – | – | ±0.5%F.S.±1 digit | | | |
| TDS | Measurement method | – | – | – | Conversion from conductivity value | | | |
| | Measurement range (Display range) | – | – | – | 0.01 mg/L～1000 g/L | 0.01 mg/L～100 g/L | 0.01 mg/L～1000 g/L | |
| | Resolution | – | – | – | 0.01 mg/L | | | |
| Input/ output | Input (number of channels) | 1 | 1 | 2 | 2 | 2 | 1 | 1 |
| | USB peripherals (Communication with PC)*1 | ● | ● | ● | ● | ● | ● | ● |
| | USB host (USB memory) | – | ● | ● | ● | – | – | ● |
| | RS-232C (Printer/PC) | ● | ● | ● | ● | ● | ● | ● |
| | Analog out put | – | ● | ● | ● | – | – | ● |
| Data | Memory number | 999 | 2000 | 2000 | 2000 | 999 | 999 | 2000 |
| | Interval memory | ● | ● | ● | ● | ● | ● | ● |
| | ID input | ● | ● | ● | ● | ● | ● | ● |
| | Data search | – | ● | ● | ● | – | – | ● |
| Display | Display | Custom LCD | Color graphic LCD with capacitive Touch Panel | | | Custom LCD | | Color graphic LCD with capacitive Touch Panel |
| | Dual component display | – | – | ● | ● | ● | – | – |
| | Multilanguage display | – | Japanese/English/Chinese/Korean | | | – | – | Japanese/English/ Chinese/Korean |
| Function | Navigation function | – | ● | ● | ● | – | – | ● |
| | User guide | – | ● | ● | ● | – | – | ● |
| | Graph display | – | ● | ● | ● | – | – | ● |
| | Printer connectivity (GLP/GMP) | ● | ● | ● | ● | ● | ● | ● |
| | Custom printing function | – | ● | ● | ● | – | – | ● |
| | Temperature compensation (Auto/manual) | ● | ● | ● | ● | ● | ● | ● |
| | AutoHold function | ● | ● | ● | ● | ● | ● | ● |
| | AutoHold setting | – | ● | ● | ● | – | – | ● |
| | Stability function (pH/ION) | – | ● | ● | ● | – | – | ● |
| | Register operator | – | ● | ● | ● | – | – | ● |
| | Security (password) | ● | ● | ● | ● | ● | ● | ● |
| | Version up function | ● | ● | ● | ● | ● | ● | ● |
| Ambient temperature | | 0～45°C | | | | | | |
| Power | | AC adaptor 100 ～ 240 V 50/60 Hz | | | | | | |
| Demensions | | 170 (W)×174 (D)×73 (H)mm (Excluding electrode stand and AC adaptor) | | | | | | |
| Power consumption | | Approx. 0.7 VA | Approx. 9.8 VA | | | Approx. 0.7 VA | | Approx. 9.8 VA |
| Mass of main unit | | Approx. 500 g | Approx. 700 g | | | Approx. 500 g | | Approx. 700 g |

*1 USB cable sold separately. Software can be download by web registration.