

# LAQUAact D-70/ES-70/OM-70 series specifications

	D-71	D-72	D-73	D-74	D-75	ES-71	OM-71						
pH	Measuring principle							Glass electrode method	—	—			
	Measuring range							pH 0.00~14.00	—	—			
	Display range							-2.00~16.00 *Flashing in the case of outside measurement range.	—	—			
	Resolution							0.01 pH	—	—			
	Repeatability							±0.01 pH±1digit	—	—			
	Auto calibration (5 points)/Calibration record							●	—	—			
	Standard solution Auto-detect							●	—	—			
	USA/NIST selectable							●	—	—			
	Calibration interval alarm							●	—	—			
mV (ORP)	Measuring range (Display range)							-2000~2000 mV *Flashing in the case of outside measurement range.	—	—			
	Resolution							1 mV	—	—			
	Repeatability							±1 mV±1 digit	—	—			
	Absolute/relative selectable							●	—	—			
Temperature	Measuring range (Display range)							0.0°C~100.0°C (-30°C~130°C) *Flashing in the case of outside measurement range.	—	—			
	Resolution							0.1°C	—	—			
	Repeatability							±0.1°C±1digit	—	—			
	Calibration function							●	—	—			
ION	Measuring principle							—	—	Ion electrode method	—	—	
	Measuring range (Display range)							—	—	0.00 µg/L~999 g/L	—	—	
	Resolution							—	—	3-digit valid numbers	—	—	
	Repeatability							—	—	±0.5% F.S.±1 digit	—	—	
	5 points calibration/Calibration record							—	—	●	—	—	
Conductivity	Measuring principle							—	—	2 AC bipolar method	—	—	
	Measuring range (Display range)							—	—	0.0 µS/m~200.0 S/m*1	—	0.0 µS/m~200.0 S/m*1	
	Resolution							—	—	0.05%F.S.	—	0.05%F.S.	
	Repeatability							—	—	±0.5% F.S.±1 digit	—	±0.5% F.S.±1 digit	
	Change unit (S/m,S/cm)							—	—	●	—	●	
Auto temperature conversion (25 °C)							—	—	●	—	●		
Salinity	Measuring principle							—	—	Conversion from conductivity value	—	Conversion from conductivity value	
	Measuring range (Display range)							—	—	0.00%~4.00% (0.0PPT~40.0PPT)	—	0.00%~4.00% (0.0PPT~40.0PPT)	
	Resolution							—	—	0.01%/0.1 PPT	—	0.01%/0.1 PPT	
	Calibration function							—	—	●	—	●	
Resistivity	Measuring principle							—	—	Conversion from conductivity value	—	Conversion from conductivity value	
	Measuring range (Display range)							—	—	0.000 Ω·m~2,000 MΩ·m*2	—	0.000 Ω·m~2,000 MΩ·m*2	
	Resolution							—	—	0.05%F.S.	—	0.05%F.S.	
	Repeatability							—	—	±0.5%F.S.±1 digit	—	±0.5%F.S.±1 digit	
TDS	Measuring principle							—	—	Conversion from conductivity value	—	Conversion from conductivity value	
	Measuring range (Display range)							—	—	0.01mg/L~100g/L	—	0.01mg/L~100g/L	
	Resolution							—	—	0.01mg/L	—	0.01mg/L	
Dissolved Oxygen	Measuring principle							—	—	Membrane galvanic cell	—	Membrane galvanic cell	
	Measuring range (Display range)							—	—	0.00~20.00 mg/L	—	0.00~20.00 mg/L	
	Temperature compensation							—	—	0~40 °C	—	0~40 °C	
	Resolution							—	—	0.01 mg/L	—	0.01 mg/L	
	Repeatability							—	—	±0.1 mg/L±1 digit	—	±0.1 mg/L±1 digit	
	Salinity concentration correction (0~40PPT)							—	—	●	—	●	
Saturated Oxygen	Air pressure correction							—	—	●	—	●	
	Measuring principle							—	—	Membrane galvanic cell	—	Membrane galvanic cell	
	Measuring range (Display range)							—	—	0.0~200.0%	—	0.0~200.0%	
Oxygen concentration	Resolution							—	—	0.1%	—	0.1%	
	Measuring principle							—	—	Membrane galvanic cell	—	Membrane galvanic cell	
Display	Measuring range (Display range)							—	—	0.0~50.0%	—	0.0~50.0%	
	Resolution							—	—	0.1%	—	0.1%	
	Function							Custom LCD	Custom LCD with backlight				
	PC connectivity (RS-232C)*3							—	●	●	●	●	
	Printer connectivity (GLP/GMP)							—	●	●	●	●	
	temperature compensation (Auto/manual)							—	●	●	●	●	
	Auto Hold function							—	●	●	●	●	
	Data memory number							—	1000	●	●	●	
	Interval memory							—	●	●	●	●	
	ID input							—	●	●	●	●	
Clock function							—	●	●	●	●		
Auto power off/Battery Level Indicator							—	●	●	●	●		
Dustproof and waterproof standard							—	IP67					
Operating ambient temperature/humidity							0 °C to 45 °C , 80% or less in relative humidity (no condensation)						
Power							LR03/AAA alkaline batteries or AAA Ni-H rechargeable batteries × 2, AC adapter 100 V to 240 V 50/60 Hz (option)						
Current consumption							Less than 1 mA	Less than 1 mA	Less than 2 mA	Less than 5 mA	Less than 2 mA	Less than 5 mA	Less than 2 mA
Battery life*4							Approx. 1000 hours	Approx. 1000 hours	Approx. 500 hours	Approx. 200 hours	Approx. 500 hours	Approx. 200 hours	Approx. 500 hours
Dimension							Approx. 67 (80) × 28 (42) × 170 mm (The figures in parentheses are maximum thicknesses.)						
Weight (without batteries and electrode)							Approx. 270 g	Approx. 270 g	Approx. 285 g	Approx. 285 g	Approx. 285 g	Approx. 270 g	Approx. 270 g

\*1 Cell constant 100 m<sup>3</sup>: 0.000 mS/m~20.00 S/m, Cell constant 10 m<sup>3</sup>: 0.0 µS/m~2.000 S/m, Cell constant 1000 m<sup>3</sup>: 0.00 mS/m~200.0 S/m

\*2 Cell constant 100 m<sup>3</sup>: 0.00 Ω·m~200.0 kΩ·m, Cell constant 10 m<sup>3</sup>: 0.0 Ω·m~2.000 MΩ·m, Cell constant 1000 m<sup>3</sup>: 0.000 Ω·m~20.00 kΩ·m

\*3 RS-232C cable(3014030151) and software is required. Software can be download by web registration. If you need to connect to the USB, the adapter (RS232C⇄USB) commercially available is required. Please buy one that be suitable for the specifications of the PC (OS・USB Specification, etc.). \* HORIBA will not guarantee the adapter operation

\*4 Battery life will be shorter when using optional accessories and backlight LCD is activated.