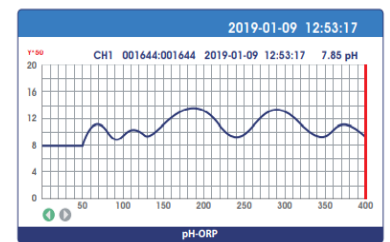
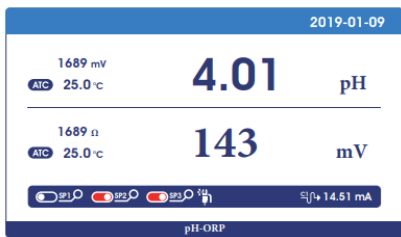


## Universal Online Analyzer Controller



### Sensor PA1000 Series

### Features



- 4-20mA/RS485 multiple connection modes
- Three sets of relay control switches
- High limit, low limit, hysteresis control
- Full color screen, multi line display

- Two kinds of installation: plate installation and wall mounted
- Multiple automatic calibration function
- Manual & automatic temperature compensation

- Data recording/trend chart display
- Intelligent menu operation
- Differential signal measurement mode, stable and reliable



**CONNECT+**  
IoT Solution Enabled

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## Universal Online Analyser Controller Series

AC2000M



AC2000C



AC2000D1



AC2000D2



### Technical Specifications\*

Descriptions	AC2000M	AC2000C	AC2000D1	AC2000D2
Temperature	0~150.0°C (According to the electrode)	-10~150.0 °C(According to the electrode)	-10~150.0°C (According to the electrode)	-10~150.0 °C(According to the electrode)
Temperature resolution	0.1 °C	0.1 °C	0.1 °C	0.1 °C
Temperature error	±0.3 °C	±0.3 °C	±0.3 °C	±0.3 °C
Temperature compensation range	0~150°C	0~150°C	0~150°C	0~150°C
Temperature compensation	Automatic or manual	Automatic or manual	Automatic or manual	Automatic or manual
Output current	2 road 4 ~20mA , 20~4mA, 0~20mA	2 road 4 ~20mA , 20~4mA, 0~20mA	2 road 4 ~20mA , 20~4mA, 0~20mA	2 road 4 ~20mA , 20~4mA, 0~20mA
Communication output	RS485 Modbus RTU	RS485 Modbus RTU	RS485 Modbus RTU	RS485 Modbus RTU
Other features	-	-	Data recording/trend chart display	Data recording/trend chart display
Relay control contact	Two groups:3A 250VAC , 3A 30VDC	Two groups:3A 250VAC , 3A 30VDC	Three groups :5A 240VAC; 5A 28VDC or 120VAC	Three groups :5A 240VAC; 5A 28VDC
Optional power supply	85~265VAC or 9~36VDC , Powers≤3W	85~265VAC or 9~36VDC , Powers≤3W	85~265VAC or 9~36VDC , Powers≤3W	85~265VAC or 9~36VDC , Power ≤3W
Work environment	No strong magnetic field interference around except f earth's magnetic field Integrated installation			
Environment temperature	-10~60 °C	-10~60°C	-10~60 °C	-10~60 °C
Relative humidity	≤90%	≤90%	≤90%	≤90%
Protection grade	IP65	IP65	IP65	IP65
Instrument weight	0.6kg	0.6kg	0.8kg	0.8kg
Instrument dimension	98x98x130mm	98x98x130mm	144x144x118mm	144x144x118mm
Mounting hole size	92.5x92.5mm	92.5x92.5mm	138x138mm	138x138mm
Instrument Installation method	Plate installation, wall mounted	Plate installation, wall mounted	Plate installation, wall mounted	Plate installation, wall mounted

### Controller Selection Guide

Parameters	Controller Part Number				Range	Resolution	Error	Stability
pH/ORP	AC2000M	AC2000C			0-14pH; ±2000mV	0.01pH; 1mV	±0.02pH; ±2mV	≤0.02pH/24h ; ≤2mV/24h
			AC2000D1	AC2000D2	-2-16pH; ±2000mV	0.001pH; 1mV	±0.01pH; ±1mV	≤0.01pH/24h ; ≤1mV/24h
Ion	AC2010M	AC2010C	AC2010D1	AC2010D2	0-99999mg/L	0.01mg/L	±2.5%	-
					0-500ms/cm	0.01μs/cm; 0.01mS/cm		
Conductivity	AC2030M	AC2030C	AC2030D1	AC2030D2	0-18.82MΩ/cm	0.01KΩ/cm; 0.01MΩ/cm	±0.5%FS	±0.2%FS/24h
					0-250g/L	0.01mg/L; 0.01g/L		
Resistivity					0-700ppt	0.01PPT; 0.1%; 0.01mg/L		
TDS					NAOH:0-16%	0.01%	±0.25%	±0.25%/24h
Salinity		AC2036C	AC2036D1	AC2036D2	CaCL2:0-22%			
Acid base salt concentration					NACL/HNO3/HCL/H2SO4: 0-10%			
			AC2036D1	AC2036D2	0~2000mS/cm	0.01μS/cm ; 0.01mS/cm	±0.5%FS	±0.2%FS/24h
Electromagnetic conductivity					0~1000g/L	0.01mg/L ; 0.01g/L	Concentration : ±0.2%	
Polarographic dissolved oxygen	AC2040M	AC2040C	AC2040D1	AC2040D2	0-40m g/L; 0-400%	0.01mg/L; 0.1%	±1%FS	< 2%FS/Week
Trace dissolved oxygen		AC2042C	AC2042D1	AC2042D2	0-200μg/L-20.0mg/L	0.1μg/L; 0.01mg/L	±1%FS	< 2%FS/Week
Fluorescent dissolved oxygen		AC2046C	AC2046D1	AC2046D2	0-20.0mg/L; 0-100%	0.01mg/L; 0.1%	±1%FS	< 2%FS/Week
Turbidity meter		AC2070C	AC2070D1	AC2070D2	0.001-9999NTU	0.001NTU	±1%FS	-
Suspended solids		AC2075C			0-50000mg/L	0.01mg/L; 0.01g/L	±1%FS	-
Potentiostatic FCL			AC2075D1	AC2075D2	5.00-50000mg/L	0.01mg/L; 0.01g/L	±1%FS	
Polarographic FCL		AC2050C	AC2050D1	AC2050D2	0-20.00mg/L(ppm)	0.001mg/L	±1%FS	Response time : 90% < 90S
Potentiostatic CLO2		AC2055C	AC2055D1	AC2055D2	0-10.00-20.00mg/L	0.001mg/L	±1%FS	
Potentiostatic Ozone					pH: 0~14.00pH	pH: 0.01pH	pH: ±0.05pH	Response time : 90% < 90S
Ultrasonic sludge Level		AC2053C	AC2053D1	AC2053D2	0-20mg/L	0.001mg/L	±1%FS	Response time : 90% < 90S
Ultrasonic level Meter		AC2058C	AC2058D1	AC2058D2	0-20mg/L	0.001mg/L	±1%FS	Response time : 90% < 90S
			AC2080D1	AC2080D2	0.2-12m	0.001m	±1%FS	
			AC2085D1	AC2085D2	0-1-5-10m (Customize)	0.001m	±1%FS	Flow rate : ≤3m/S