



AT SYSTEMS

ATS-X2000-D

Dual-Channel pH-ORP Controller

PRODUCT DATA SHEET



SPECIFICATIONS

Measuring Range	pH (Channel 1)	ORP (Channel 2)
	0.00 - 14.00pH Min Resolution: 0.001 Accuracy: 0.5%	-2000mv to +2000mV Min Resolution: 0.001 Accuracy: 0.5%
Measuring Range 2-Channel s(Temperature)*	-50.0°C – 200.0°C Resolution: 0.1°C Linear Coefficient: ±1.0°C accuracy	
Units	pH	mV (millivolts)
Auto Calibration Mode	2 and 3-points calibration with slope indication Any certified buffer solution is compatible	Single point calibration with +475mV standard calibration solution
Manual Calibration Mode	2 and 3-points calibration with slop indication Any custom calibration solution can be used	Single point calibration with any value within the measuring range
ORP Sensor Options	Ion-selective electrodes (ISE) are also compatible with the controller. Please specify electrode type before ordering	
Analog Output 1 (Isolated Output)	4~20mA corresponding to any selected parameter, ±0.001mA accuracy, 0.001mA resolution, maximum load 500Ω	
Analog Output 2* (Isolated Output)	4~20mA corresponding to any selected parameter, ±0.001mA accuracy, 0.001mA resolution, maximum load 500Ω	
Relays	1 (HI) – 250 VAC, 1A – On/Off Programmable 2 (LO) – 250 VAC, 1A – On/Off Programmable Relay function with customized dead band	
Clock (Optional)	Internal Clock, 24 Hr format, ±1 min/month accuracy	
Calibration History	Record keeping of previous calibration with date and time This option is only available if user opts for internal clock and SD card	
SD Card (Optional)	Can save multiple values in SD Card, user can save values for up to 5 years with specific time interval	
RS-485 Communication (Optional)	RS-485 Based communication with AT Systems software for microSD data retrieval MODBUS communication is available	
Mounting Type	Panel Mount	
Panel Cutout Size	L x W (93mm x 93mm)	
Dimensions	L x W x D (113.5mm x 113.5mm x 83mm)	
Power Requirement	24 VDC (Maximum up to 35 VDC), 2.5 Watts	
Weight (Assembly)	≈ 255 grams	
IP Class Protection	IP65 (In Panel Mount Installation)	



ATS-X2000-D is a dual-channel pH-ORP controller used for industrial and commercial purposes. The isolated design provides superior electrical noise control making it well suited for field applications. Advanced control with industry-acceptable control loop and relay logic makes it one of the most economical controllers in the market. This controller provides set point values and relay for High and Low digital control. Auto calibration makes life easy for the field calibration.

Enhanced user interface and easy-to-use 6-Button keypad make the controller intuitive. Provided logging function can save parameters values in a dedicated SD card with user-specified time. A password protection feature is an added functionality which keeps the process safe and secure.

APPLICATIONS

- Reverse Osmosis Plants
- Boiler Feed Water
- Cooling Water
- Closed Loop Systems
- Drinking Water
- Pharmaceutical Industry
- Textile Industry
- Waste Water Industry
- Chemical Industry