



AT SYSTEMS

ATS-X2000-C

Dual-Channel ORP Controller

PRODUCT DATA SHEET



SPECIFICATIONS

Measuring Range (mV) 2-Channels	-2000mv to +2000mV Minimum resolution: 0.001 Accuracy: 0.5%
Measuring Range (Temperature)* 2-Channels	-50.0°C – 200.0°C Resolution: 0.1°C resolution Linear Coefficient: ±1.0°C accuracy
Units	mV (millivolts)
Other Sensor Options	Ion-selective electrodes (ISE) are also compatible with the controller. User must specify the electrode type before ordering
Auto Calibration Mode	Single point calibration with +475mV standard calibration solution
Manual Calibration Mode	Single point calibration with any value with in the measuring range
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
Display	Large graphical LCD (128px × 64px) with adjustable contrast and brightness
Mounting Type	Panel Mount
Panel Cutout Size	L x W (93mm x 93mm)
Dimensions	L × W × D (113.5mm × 113.5mm × 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-C is a dual-channel ORP controller used for industrial and commercial purposes. The isolated design provides superior noise control making it well suited for field application. Advance 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 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