



AT SYSTEMS

ATS-X2000-F

Dual-Channel Conductivity-ORP Controller

PRODUCT DATA SHEET



SPECIFICATIONS

Measuring Range (Conductivity) - Channel 1	0.000 μ S/cm – 200 mS/cm, minimum resolution: 0.001 μ S/cm, \pm 0.5% accuracy			
Measuring Range (TDS) - Channel 1	0.00 - 100 ppt, minimum resolution: 0.001 ppm resolution, \pm 0.5% accuracy			
Measuring Range (Resistivity) - Channel 1	5.00 Ω - 20M Ω , minimum resolution: 0.001K Ω , \pm 0.5% accuracy			
Measuring Range (ORP) - Channel 2	-2000mv to +2000mV, Minimum resolution: 0.001, Accuracy: 0.5%			
Measuring Range (Temperature)*	-50.0 $^{\circ}$ C – 200.0 $^{\circ}$ C, 0.1 $^{\circ}$ C resolution, Linear Coefficient \pm 1.0 $^{\circ}$ C accuracy			
Units	Conductivity	TDS	Resistivity	ORP
	μ S mS	ppm ppt	k Ω M Ω	mV (milliVolts)
Auto Calibration Mode	ORP (Channel 2): Single point calibration with +475mV standard calibration solution			
Manual Calibration Mode	Conductivity (Channel 1): Easy single point calibration. User may operate the controller just by entering cell constant Any certified conductivity calibration solution will suffice pH ORP (Channel 2): Single point calibration with any value within the measuring range			
Analog Output 1 (Isolated Output)	4~20mA corresponding to any selected parameter, \pm 0.001mA accuracy, 0.001mA resolution, maximum load 500 Ω			
Analog Output 2* (Isolated Output)	4~20mA corresponding to any selected parameter, \pm 0.001mA accuracy, 0.001mA resolution, maximum load 500 Ω			
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, \pm 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)	\approx 255 grams			
IP Class Protection	IP65 (In Panel Mount Installation)			



ATS-X2000-F is a dual-channel conductivity-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 feature rich and economical controllers in the market. The 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