



AT SYSTEMS

# ATS-X2000-B

## Dual-Channel Conductivity, TDS & Resistivity Controller

### PRODUCT DATA SHEET



#### SPECIFICATIONS

<b>Measuring Range (Conductivity) 2-Channels</b>	0.000 $\mu$ S/cm – 200 mS/cm, minimum resolution: 0.001 $\mu$ S/cm, $\pm$ 0.5% accuracy		
<b>Measuring Range (TDS) 2-Channels</b>	0.00 - 100 ppt, minimum resolution: 0.001 ppm resolution, $\pm$ 0.5% accuracy		
<b>Measuring Range (Resistivity) 2-Channels</b>	5.00 $\Omega$ - 20M $\Omega$ , minimum resolution: 0.001K $\Omega$ , $\pm$ 0.5% accuracy		
<b>Measuring Range (Temperature)* 2-Channels</b>	-50.0 $^{\circ}$ C – 200.0 $^{\circ}$ C, 0.1 $^{\circ}$ C resolution, Linear Coefficient $\pm$ 1.0 $^{\circ}$ C accuracy		
<b>Units</b>	Conductivity	TDS	Resistivity
	$\mu$ S mS	ppm ppt	k $\Omega$ M $\Omega$
<b>Calibration Mode</b>	Easy single point calibration. User may operate the controller just by entering cell constant Any certified conductivity calibration solution will suffice		
<b>Cell Constant</b>	2-pole Electrode: 0.01 – 10.0 /cm fixed, 0.01 – 10.0/cm freely selectable (user defined)		
<b>Temperature Compensation</b>	Linear Temperature Compensation through-out the sensor range 2-wire PT100/PT1000 RTD		
<b>Analog Output 1 (Isolated Output)</b>	4~20mA corresponding to any selected parameter, $\pm$ 0.001mA accuracy, 0.001mA resolution, maximum load 500 $\Omega$		
<b>Analog Output 2* (Isolated Output)</b>	4~20mA corresponding to any selected parameter, $\pm$ 0.001mA accuracy, 0.001mA resolution, maximum load 500 $\Omega$		
<b>Relays</b>	1 (HI) – 250 VAC, 1A – On/Off Programmable 2 (LO) – 250 VAC, 1A – On/Off Programmable Relay function with customized dead band		
<b>Clock (Optional)</b>	Internal Clock, 24 Hr format, $\pm$ 1 min/month accuracy		
<b>SD Card (Optional)</b>	Can save multiple values in SD Card, user can save values for up to 5 years with specific time interval		
<b>RS-485 Communication (Optional)</b>	RS-485 Based communication with AT Systems software for microSD data retrieval MODBUS communication is available		
<b>Mounting Type</b>	Panel Mount		
<b>Panel Cutout Size</b>	L x W (93mm x 93mm)		
<b>Dimensions</b>	L x W x D (113.5mm x 113.5mm x 83mm)		
<b>Power Requirement</b>	24 VDC (Maximum up to 35 VDC), 2.5 Watts		
<b>Weight (Assembly)</b>	$\approx$ 255 grams		
<b>IP Class Protection</b>	IP65 (In Panel Mount Installation)		



**ATS-X2000-B** is a dual-channel conductivity 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. Single-point 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 microSD 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