



AT SYSTEMS

ATS-CD1000

Conductivity, TDS & Resistivity Controller

PRODUCT DATA SHEET



SPECIFICATIONS

Measuring Range (Conductivity)	0.000 μ S/cm – 200 mS/cm, minimum resolution: 0.001 μ S/cm, \pm 0.5% accuracy		
Measuring Range (TDS)	0.00- 100 ppt, minimum resolution: 0.001 ppm resolution, \pm 0.5% accuracy		
Measuring Range (Resistivity)	5.00 Ω - 20M Ω , minimum resolution: 0.001K Ω , \pm 0.5% accuracy		
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
	μ S mS	ppm ppt	k Ω M Ω
Calibration Mode	Easy single point calibration. User may operate the controller just by entering cell constant Any certified conductivity calibration solution will suffice		
Cell Constant	2-pole Electrode: 0.01 – 10.0 /cm fixed, 0.01 – 10.0/cm freely selectable (user defined)		
Temperature Compensation	Linear Temperature Compensation through-out the sensor range 2-wire PT100/PT1000 RTD		
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) – 24 VDC, 1A – On/Off Programmable 2 (LO) – 24 VDC, 1A – On/Off Programmable Relay function with customized dead band		
Clock (Optional)	Internal Clock, 24 Hr format, \pm 1 min/month accuracy		
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 \times 64px) with adjustable contrast and brightness		
Mounting Type	Panel Mount		
Panel Cutout Size	L x W (93mm x 93mm)		
Dimensions	L \times W \times D (113.5mm \times 113.5mm \times 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-CD1000 is a single-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

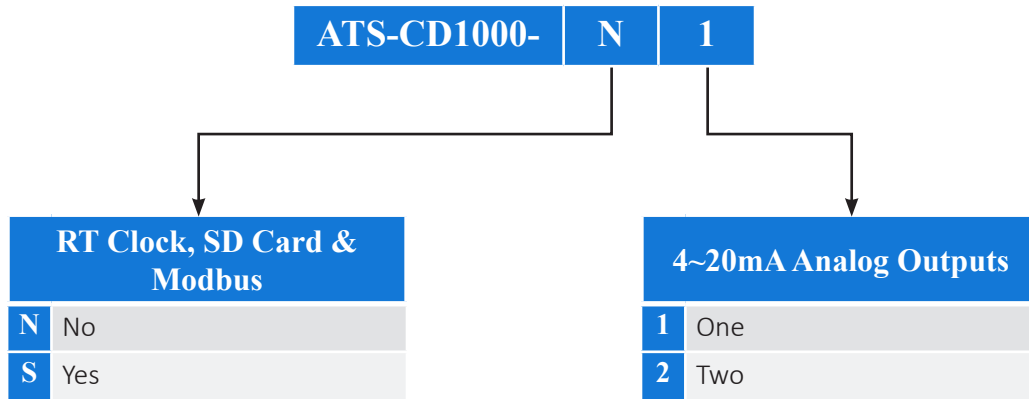


*2nd analog output feature is available upon user request. Please select ATS-CD1000N2 to avail this feature

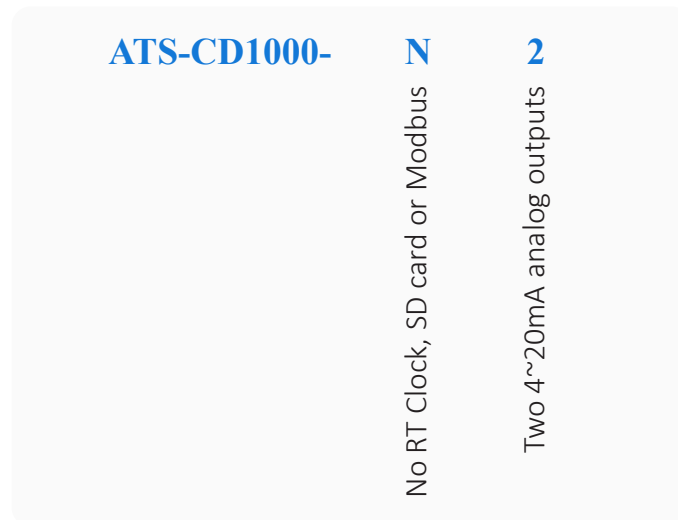
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MODEL SELECTION GUIDE



Example



Standard Model: ATS-CD1000-N1