



AT SYSTEMS

# ATS-ORP1000

## ORP Controller

### PRODUCT DATA SHEET



#### SPECIFICATIONS

<b>Measuring Range (mV)</b>	-2000mv to +2000mV Minimum resolution: 0.001 Accuracy: 0.5%
<b>Measuring Range (Temperature)*</b>	-50.0°C – 200.0°C, 0.1°C resolution, Linear Coefficient ±1.0°C accuracy
<b>Units</b>	mV (millivolts)
<b>Other Sensor Options</b>	Ion-selective electrodes (ISE) are also compatible with the controller. User must specify the electrode type before ordering
<b>Auto Calibration Mode</b>	Single point calibration with +475mV standard calibration solution
<b>Manual Calibration Mode</b>	Single point calibration with any value within the measuring range
<b>Analog Output 1 (Isolated Output)</b>	4~20mA corresponding to any selected parameter, ±0.001mA accuracy, 0.001mA resolution, maximum load 500Ω
<b>Analog Output 2* (Isolated Output)</b>	4~20mA corresponding to any selected parameter, ±0.001mA accuracy, 0.001mA resolution, maximum load 500Ω
<b>Relays</b>	1 (HI) – 24 VDC, 1A – On/Off Programmable 2 (LO) – 24 VDC, 1A – On/Off Programmable Relay function with customized dead band
<b>Clock (Optional)</b>	Internal Clock, 24 Hr format, ±1 min/month accuracy
<b>Calibration History</b>	Record keeping of previous calibration with date and time This option is only available if user opts for internal clock and SD card
<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>Display</b>	Large graphical LCD (128px × 64px) with adjustable contrast and brightness
<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>	≈ 255 grams
<b>IP Class Protection</b>	IP65 (In Panel Mount Installation)

\*2nd analog output feature is available upon user request. Please select ATS-ORP1000N2 to avail this feature



**ATS-ORP1000** is a single-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

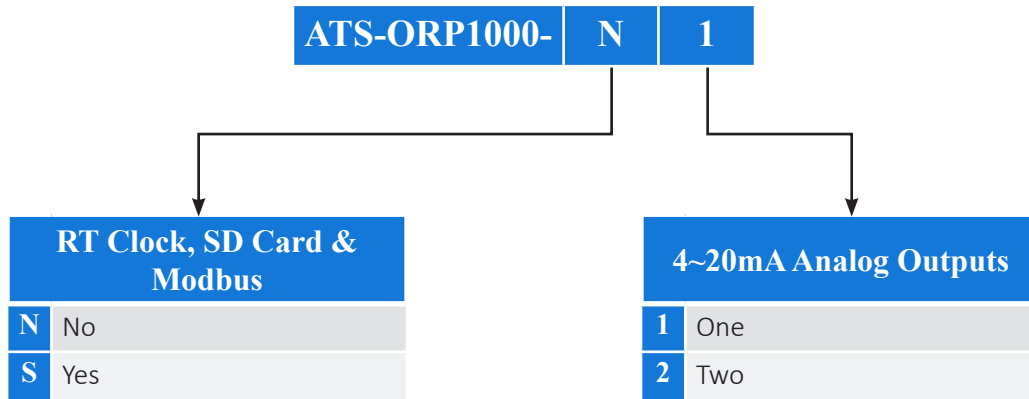
- Reverse Osmosis Plants
- Boiler Feed Water
- Cooling Water
- Closed Loop Systems
- Drinking Water
- Pharmaceutical Industry
- Textile Industry
- Waste Water Industry
- Chemical Industry



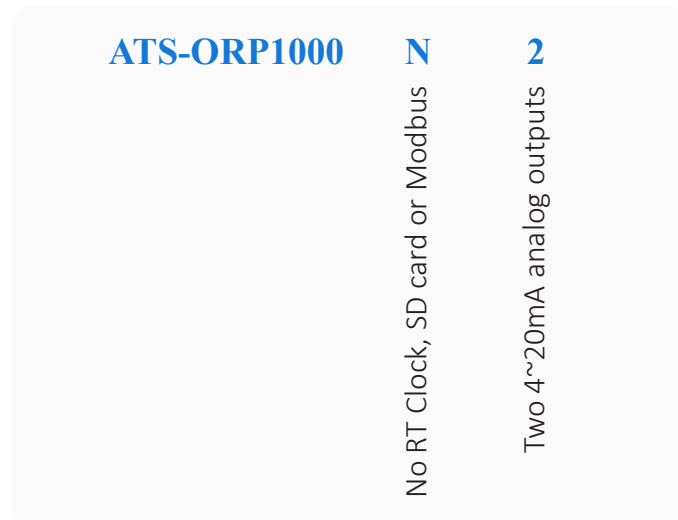
# ATS-ORP1000

ORP Controller

## MODEL SELECTION GUIDE



### Example



**Standard Model:** ATS-ORP1000-N1