# ATS-DM1000
## dataM Controller
# PRODUCT DATA SHEET

**AT SYSTEMS**

*Proudly* DESIGNED IN **CANADA**

## SPECIFICATIONS

| | |
|---|---|
| **Channel Selection** | 4x 4-20mA based input channels with independent unit selection and span settings |
| **Measuring Range** | Values up to 99999, 0.001 resolution, 12-Bit analog resolution |
| **Span Setting** | 5-digit independent span selection/adjustment corresponding to 4mA and 20mA inputs |
| **Micro SD Card for Data Acquisition** | Micro SD card installed for data acquisition of all four parameters at user defined time intervals |
| **Wireless Communication** | Built in Wireless communication module (requires wireless Internet connection). Data transmission and logging on remote server, can be accessed on mobile app and computer software Remote control of relays and current loop output |
| **Display Units** | 15 Programmable units (For additional units please contact AT Systems): <ul><li>Loop Current - mA</li><li>Conductivity - mS/cm, µS/cm</li><li>Total Dissolved Solids - ppt, ppm</li><li>pH</li><li>Flow - m³/h, GPM, kg/h</li><li>Pressure - Bar, mBar, PSI</li><li>Temperature- °C, K</li><li>Percentage - %</li></ul> |
| **Channel Functions** | Subtraction, addition, multiplication and addition of channel values |
| **Analog Input Calibration** | Factory calibrated 4-20mA analog channel inputs with in-field calibration functionality |
| **Analog Output Channel** | 1x 4~20mA analog out with channel mirror, proportional control |
| **Relays** | 2x relays with independent remote and local operation. Rating: 277VAC, 125VDC-Max, 1A Advanced trigger delay |
| **RS-485 Communication** | RS-485 based communication with AT Systems dataM Software for microSD data retrieval, live data monitoring, data analytics and remote relay operation |
| **Clock** | Internal clock and calendar, 24 Hour format, ± 1 min/month accuracy |
| **Security Settings** | Password protection |
| **Device ID** | Unique device ID allocation for interfacing multiple controllers with AT Systems dataM Software |
| **Panel Cutout Size** | L x W (93mm x 93mm) |
| **Dimensions (Volume Based)** | L x W x D (113.5mm x 113.5mm x 83mm) |
| **IP Class Protection** | IP 65 (In Panel Mount Installation) |
| **Weight (Assembly)** | ≈ 255 grams |
| **Power Requirement** | 24 VDC with high voltage, polarity and short circuit protection |



**ATS-DM1000** dataM Controller is a general purpose industry standard controller for use in realtime monitoring, analyzing and logging of up to 4 parameters of any industrial system. With a wide range of user selectable display units, independent span adjustment and calibration, remote and local relay operation, it provides an enhanced user experience. Built-in micro SD card for data acquisition and communication with custom built desktop application adds a dynamic data analytics capability. Multiple dataM controllers can be installed for monitoring of all the parameters of a plant on a single screen and a comprehensive profile of the entire plant can be obtained.

**ATS-DM1000** has a robust design with standard panel mount fitting and a simple user interface.
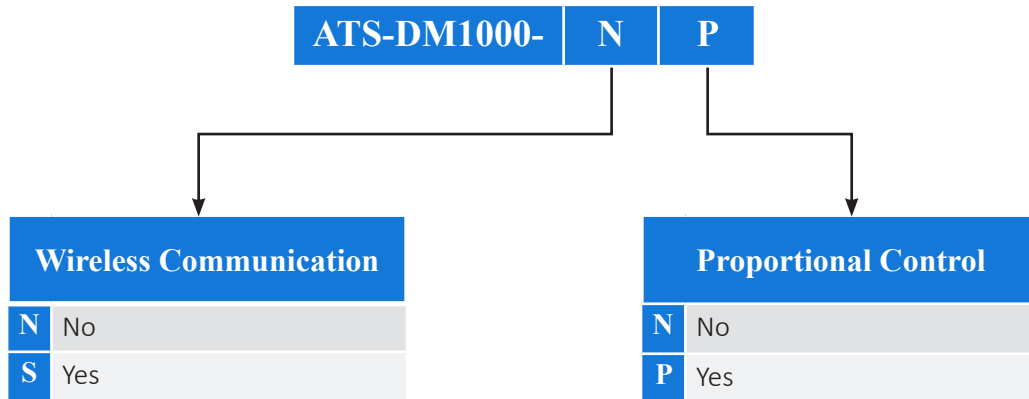
## APPLICATIONS
- 4-20mA Data Logging
- Water Management
- Reverse Osmosis Safety
- Ultra Filtration Safety
- Tube Wells automation
- Chemical Process Industry
- Food Industry
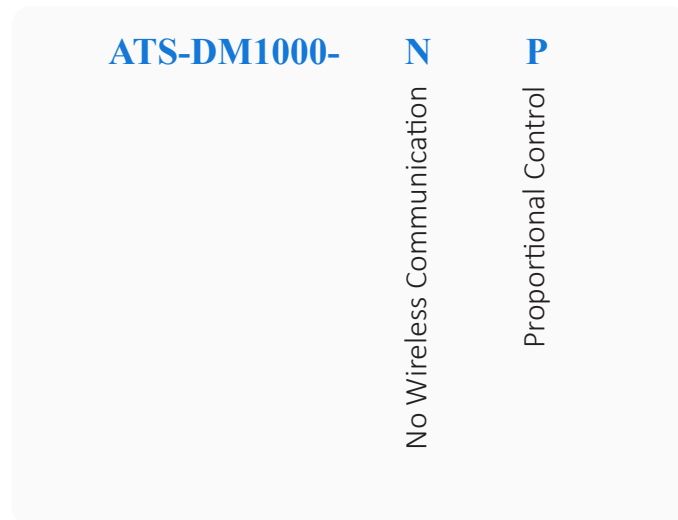- Power Plant data recording
- Cooling Tower Real Time COC monitoring

*1 YEAR WARRANTY*

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Proudly DESIGNED IN CANADA



| ATS-DM1000- | N | P |
|---|---|---|

| Wireless Communication | |
|---|---|
| **N** | No |
| **S** | Yes |

| Proportional Control | |
|---|---|
| **N** | No |
| **P** | Yes |

## Example

| ATS-DM1000- | N | P |
|---|---|---|
| | No Wireless Communication | Proportional Control |

**Standard Model:**   ATS-DM1000-NN