ATS-LV1000
Level Controller
PRODUCT DATA SHEET

AT SYSTEMS

Proudly DESIGNED IN **CANADA**

SPECIFICATIONS

Measuring Range	Height: Up to 99.999m, 0.001 resolution, ± 0.1% accuracy Volume: Up to 99999m3, 0.001 resolution, ± 0.1% accuracy
Tank Selection	Wide range of tank type selection (Cube, cuboid, cylinder, horizontal cylinder and other customized options) User programmable dimensions
Units	Height: meters Volume: cubic meters, litres, gallons Loop current: mA
Volume Totalizer	Logging of total volume consumed, up to 999,999,999 liters
Sensor and Medium	User selectable medium Specific Gravity with corresponding sensor setting in mH$_2$O (meters of water column) Both ATS-LT1000 and ATS-LT2000 Sensor are compatible with this level controller User may install a third party sensor with the level controller
Analog Input Calibration	Factory calibrated 4~20mA analog input for sensor connection, with in-field calibration functionality
Analog Output (Isolated Output)	4~20mA corresponding to Height or Volume, ±0.001mA accuracy, 0.001mA resolution, maximum load 500Ω
Relays	1 (HI) – 24 VDC, 0.5A – On/Off Programmable 2 (LO) – 24 VDC, 0.5A – On/Off Programmable Relay function with customized dead band Note: Relays can be used for batch processing, please contact AT Systems for further information
Clock (Optional)	Internal clock and calendar, 24-Hour format, ±1 min/month accuracy
SD Card	Micro SD card installed for data acquisition functionality at user defined time intervals
RS485 Communication (Optional)	RS-485 based communication with desktop application. AT Systems software for SD data retrieval, live data monitoring and data analytics
Device ID	Unique device ID allocation for interfacing multiple controllers with AT Systems Level Software
Security	Password protection
Panel Cutout Size	L x W (93mm x 93mm)
Dimensions	L x W x D (113.5mm x 113.5mm x 83mm)
IP Class Protection	IP65 (In Panel Mount Installation)
Weight (Assembly)	≈ 255 Grams
Power Requirement	24 VDC (Maximum up to 35 VDC),2.5 Watts

Note*: Dual sensor option and customized solution also available at user request
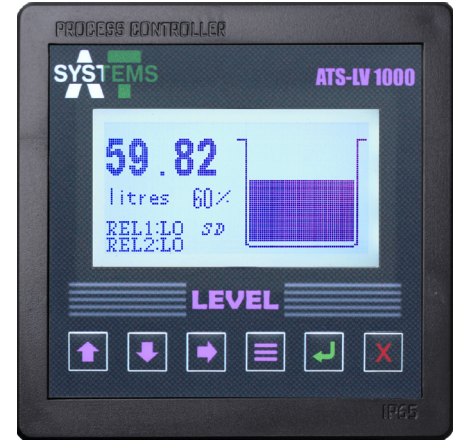
ATS-LV1000 Level Controller is an industry standard controller used for monitoring, analyzing, logging and controlling fluid level in a tank. With a wide range of user selectable tank shapes, dimensions, display units, relay settings and sensor and medium specifications, it provides an enhanced user experience. Built-in micro SD card for data acquisition and communication with the custom built desktop application add a dynamic data analytics capability.

ATS-LV1000 has a robust design with standard panel mount fitting and a simple user interface.

APPLICATIONS

- Silo Tanks
- Underground Tanks
- Fuel Tanks
- Edible Oil Tanks
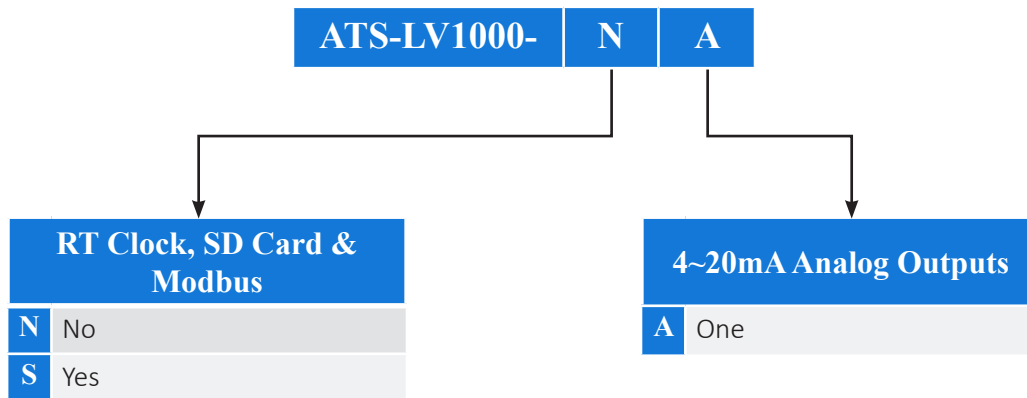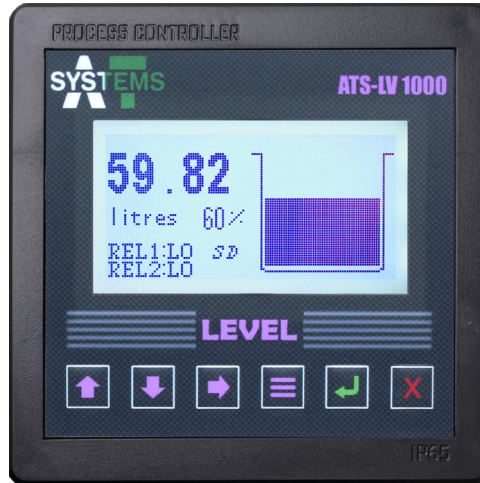- Dairy Storage Tanks
- Overhead Water Tanks
- Domestic Water Tanks

WARRANTY 1 YEAR WARRANTY

ATS-LV1000
Level Controller
MODEL SELECTION GUIDE

ATS-LV1000-	N	A

RT Clock, SD Card & Modbus		**4~20mA Analog Outputs**	
N	No	**A**	One
S	Yes		

Example

ATS-LV1000-	N	A
	No RT Clock, SD card or Modbus	One 4~20mA analog outputs
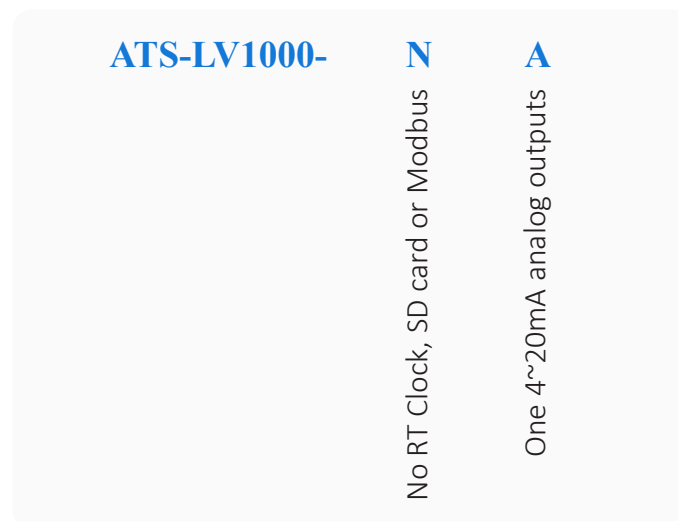
Standard Model: ATS-LV1000-NN