

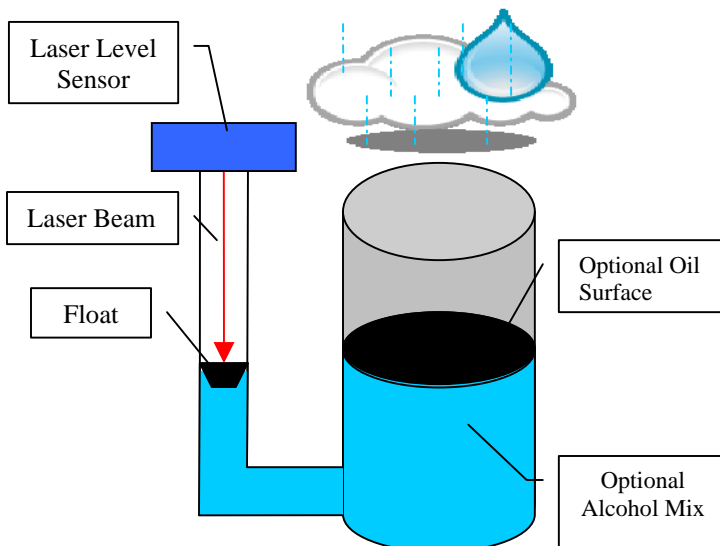


# LASER PRECIPITATION SENSOR

630-0605-100

## Description

Automata's Laser Level Sensor is used to measure precipitation by using the float's position in the stilling tube and thus indirectly the liquid levels in the standpipe. There are no moving parts to freeze, jam or wear in this system. Total precipitation is collected in a standpipe, which can be ordered either as user's preference, user supplied, or supplied by Automata, Inc. as a complete unit. Optionally, a surface layer of oil may be added to prevent evaporation. A mixture of alcohol may also be added to melt solids in the standpipe for periods when the temperature remains below freezing for an extended period of time. The liquid level is tracked in a stilling well connected near the bottom of the standpipe. Please refer to the illustration. The Laser Level Precipitation Gauge is for use in lieu of more expensive and more complex weighing precipitation gauges. Industry standard 4-20m Amp. electrical signal output is standard. Measuring range is adjustable up to 30 feet.



Specifications	
Power Requirements	12-30 Volts
Output	4-20mAmps, Alarm-Contact Closure
Black	Ground
Red	+12 to 30 Vdc
White	Signal Out 4-20mA
Range	10" - 30 Feet
Sampling Rate	1 to 50 / second
Turn on Time	1 Second @ 30 samples/second
Accuracy	@50Hz, on white (float) $\pm 15$ mm, @50Hz, on grey (float) $\pm 18$ mm @1Hz, $\pm 5$ mm
Cable	15' included

**CAUTION:** Be sure the laser beam is aimed well and does not hit the side of the tube.

Email: [sales@automata-inc.com](mailto:sales@automata-inc.com) • <http://www.automata-inc.com>  
 Fax: (530) 478-5881 • Phone: (530) 478-5882 • (800) 994-0380  
 138 New Mohawk Rd., Ste. 151 • Nevada City, California 95959