

## 255-100 Analog Output Evaporation Gauge

The **255-100 Analog Output Evaporation Gauge** is designed to accurately measure water level in an evaporation pan. As water evaporates from the pan or precipitation fills the pan, a float mechanism turns a precision potentiometer which can be monitored by a data logger to record the change.

The range of the potentiometer is zero to 1000 ohms. The potentiometer requires a regulated excitation voltage, typically 5 Vdc. The output signal is wired to produce a decreasing voltage as the water level decreases. The effective range is 0 to 9.444 inches (0-239.9 mm) of water.

### Features

- Sturdy aluminum construction
- Triangular base with leveling screws
- Easy access to the float/chain assembly
- Precision potentiometer for accurate measurement
- ½" coupler for connection to the evaporation pan.



### Potentiometer Specification

Accuracy	0.25%
Linearity	0.25%
Rotation	360° continuous
Electrical angle	340° ± 1°
Resistance	1,000 ohms ± 10%
Potentiometer operating temperature range	-40° to +140° F (-40° to +60°C) <i>See note below.</i>
Mechanical range	0 to 10 inches (0-254 mm)
Electrical range	0 to 9.444 inches (0-239.9 mm)

### General

Water inlet port	1/2" NPT female coupler
Cable	50' (15 m) 24 AWG, 3 conductor, shielded
Body dimensions	8" Dia x 27.5" Tall (20 cm Dia x 70 cm Tall)
Base dimension	16" (41 cm) Triangle, with leveling bolts
Weight	7.5 lbs (3.4 kg)
Shipping Weight	15 lbs (6.8 kg)

### Ordering Information

255-100	Analog Output Evaporation Gauge, 50' cable
255-704-B	Evaporation Logger
255-100C-4	Signal Conditioning PCB, 4-20mA Output
255-100C-4N	Signal Conditioning PCB, 4-20mA Output, NEMA enclosure
255-200	Class A Evaporation Pan
255-100P/F	Stainless Steel Connecting Pipe and Fittings for attaching gauge to pan, 60"
255-100 P/F-S	Stainless Steel Connecting Pipe and Fittings for attaching gauge to pan, 6"

**Note:** All water must be removed from the evaporation gauge in freezing weather to prevent damage caused by expanding ice.