

# 255-100

## Novalynx Analog Output Evaporation Gauge



The 255-100 determines evaporation rate by measuring the changing water level in an evaporation pan. This evaporation gauge consists of a float, pulley, and counterweight attached to a precision 1000-ohm potentiometer mounted through a gear assembly in a weatherproof housing. The 255-200 or another standard National Weather Service Class A Evaporation Pan is required.

The 255-100 has a triangular base plate equipped with three leveling screws and a bubble level. The potentiometer produces a resistance output proportional to the position of the float, which can be monitored on site using a Campbell Scientific datalogger or monitored remotely by telemetry equipment. The 255-100 is compatible with all of our dataloggers.

The 255-100 can be placed directly in the pan, or connected to the pan using the 255-100P/F stainless-steel pipe and fittings. Instead of using the 255-100P/F, a 1/2" polybraided (fiber reinforced) flexible tubing, nylon fittings (1/2" NPT x Hose Bar), and small stainless steel hose clamps can be used; this equipment is available from a local hardware store.

### Ordering Information

Model	Description
255-100	Novalynx Analog Output Evaporation Gauge, 50 ft cable
255-200	Novalynx Class A Evaporation Pan
255-100P/F	Novalynx Stainless Steel Pipe & Fittings for Evaporation Pan
255-620	Novalynx Automatic Refill Kit for Evaporation Pan



The 255-100 (shown above) is manufactured by Novalynx Corporation. It is a low-power option for reading the water level of an evaporation pan such as the 255-200.



◀ The 255-200 provides a class A evaporation pan for the 255-100 Evaporation Gauge. The pan holds approximately 77 gallons of water (i.e., adding 7.7 gallons will raise water level in pan by 1").

## Specifications

### *255-100 Novalynx Analog Output Evaporation Gauge*

Height: 27 1/2" (700 mm)

Diameter: 8" (203 mm)

Weight: 7.5 lbs (3.4 kg)

Shipping weight: 15 lbs (6.8 kg)

Cable: 50' of 3-conductor, 24 AWG, shielded

Float: 4" diameter, plastic

Counterweight: 4 oz (114 g), stainless steel

Water input port: 1/2" NPT coupling, female

Base dimensions: 16" (40.6 cm) triangle with leveling screws

Total resolution: 0.03" (0.76 mm)

Accuracy: 0.25%

Rotation: 360° continuous

Electrical angle: 340°, ±1° (20° gap)

Resistance: 1,000 ohms, ±10%

Operating temperature: -40° to +60°C

Linearity: 0.25%

Mechanical range: 0 to 10" (0 to 254 mm)

Electrical range: 0 to 9.44" (0 to 240 mm)

### *255-200 Novalynx Class A Evaporation Pan*

Material: Low carbon stainless steel, type 304, 18 gauge

Construction: Heliarc welded, 1/2" drain plug NPT female coupling

Dimensions: 10" deep x 47.5" diameter (25.4 cm x 120.7 cm)

Volume: ~77 gallons (291 liters); adding 7.7 gallons will raise water level in pan by 1"

Weight: 48 lbs (21.8 kg)

Shipping weight: 59 lbs (26.8 kg)

### *255-100P/F Novalynx Stainless Steel Pipe and Fittings for Evaporation Pan*

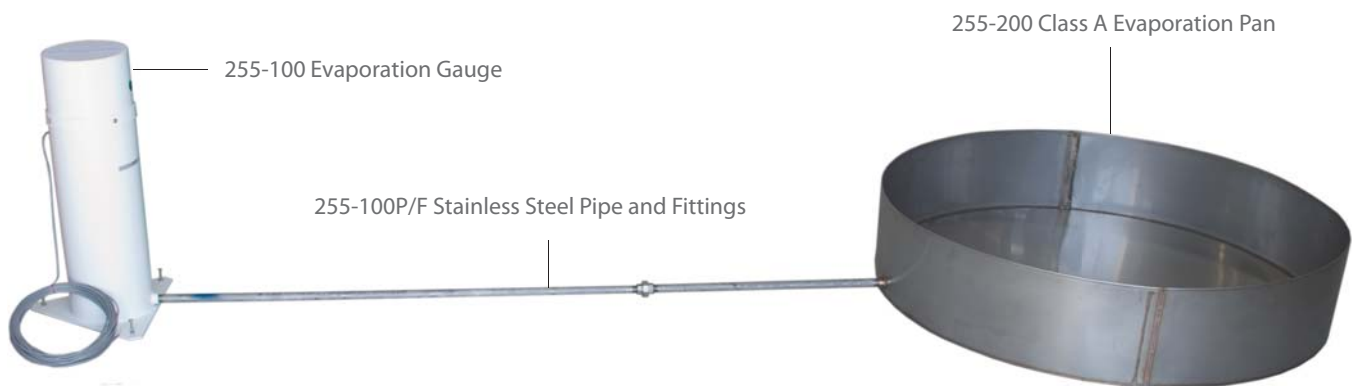
Material: stainless steel pipe fittings for 255-100

Weight: 12 lbs (5.4 kg)

Dimensions: 3" x 3" x 60" (7.6 cm x 7.6 cm x 152.4 cm)



Campbell Scientific recommends that all international customers purchase the 255/100P/F (shown above) because pipe of the correct diameter may be difficult to locate in their country.



Above is a complete evaporation gage system that includes the 255-100 Evaporation Gauge connected to a 255-200 Class A Evaporation Pan using the 255-100P/F pipe and fittings. The evaporation pan can be automatically refilled by using the 255-620 Automatic Refill Kit.

