

255-212 Min-Max Thermometer

The **Model 255-212 Min-Max Thermometer** can be configured as either a floating or submersible thermometer for measuring the minimum and maximum temperatures of water, such as in an evaporation pan. It features a u-tube thermometer mounted on a non-magnetic base. The built-in solar radiation shield protects the thermometer against direct sunlight, as well as providing protection against breakage.

In a float-mounted installation, two floats are installed on the thermometer base to float the thermometer approximately 1/4" below the water surface. The thermometer is then attached to an anchor using flexible lines at least 10' long, but short enough to keep the unit approximately one foot from the edge of the pan and the gauge.

In a submerged installation, the thermometer base rests on the bottom of the pan. A non-magnetic handle is fastened to the bulb end of the base and hooked over the edge of the pan. The thermometer should be located on the inside-bottom of the south side of the pan (in the northern hemisphere) to ensure that the thermometer bulb is shaded as much as possible from the direct rays of the sun. The thermometer must be submerged gently to keep the small indicators inside the thermometer tube from being moved away from the mercury column.

Specifications

Thermometer type: U-tube minimum-maximum
 Range: 225-212C: -5° to +50° C, 255-212F: +20° to +125° F
 Reset Magnet
 Dimensions: 11-1/4" long without floats, 13-1/2" with floats
 Weight/shipping: 1 lb/3 lbs

Ordering Information

255-212C	Floating/Submersible Min-Max Thermometer, °C
255-212F	Floating/Submersible Min-Max Thermometer, °F
210-44921	Replacement Thermometer, °F
210-44931	Replacement Thermometer, °C
210-44332	Replacement Magnet

255-200 Evaporation Pan

The **Model 255-200 Evaporation Pan** is a standard, National Weather Service Class A type for evaporation measurement. It is normally installed on a wooden platform set on the ground in a grassy location. The pan is filled with water and exposed to represent an open body of water. The pan is normally filled to within 2.5 inches of the top of the pan. The evaporation rate can be measured by manual readings or with an analog output evaporation gauge.

Specifications

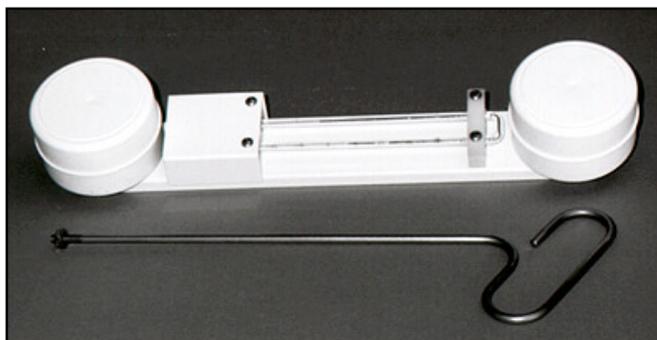
Material: Low carbon stainless steel, passivated after welding
 Construction: Heliarc welded, 1/2" drain plug
 Size: 10" H x 47.5" Dia (254 mm x 1026 mm)
 Weight/shipping: 48 lbs/59 lbs (22 kg/27 kg)
 Shipping carton dimensions: 49" x 49" x 11" (cannot ship via UPS)

Ordering Information

255-200 Class A Stainless Steel Evaporation Pan



255-200 Evaporation Pan



255-212 Floating/Submersible Min-Max Thermometer

255-100 Analog Output Evaporation Gauge

The **Model 255-100 Analog Output Evaporation Gauge** is used to determine the evaporation rate by measuring the changing water level in an evaporation pan. A standard National Weather Service Class A Evaporation Pan is recommended. The instrument consists of a float, pulley, and counterweight attached to a precision 1000-ohm potentiometer mounted through a gear assembly in a weatherproof housing. The triangular base plate is 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 data logger or a strip chart recorder, or monitored remotely by telemetry equipment. The gauge can be placed directly in the pan, or connected to the pan by using the 255-100P/F stainless steel pipe and fittings.

Specifications

Potentiometer:

Accuracy: 0.25%
 Rotation: Continuous
 Resistance: 1000 ohms
 Operating temperatures: -40° C to 60° C
 Linearity: 0.25%
 Range: 0-10"

System accuracy: Gauge with pan & pipes $\pm 0.25\%$ over 10" range

Float: 4" diameter

Height: 27-1/2"

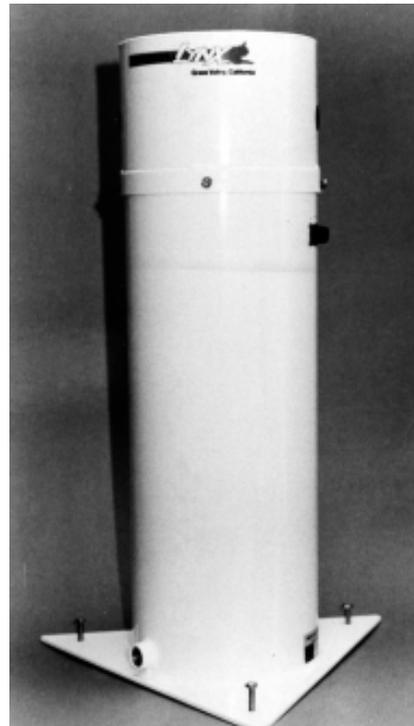
Diameter: 8"

Base: 16" triangle with leveling screws

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

Cable: 3 conductor, 50' included

Weight/Shipping: 7-1/2 lbs/15 lbs (Box 15" x 15" x 30")



255-100 Analog Output Evaporation Gauge

Ordering Information

255-100	Analog Output Evaporation Gauge, 50' cable
255-100P/F	Stainless Steel Connecting Pipe and Fittings for attaching gauge to pan, 2' pipe + 4' pipe
255-100POT	Replacement Potentiometer

255-110 Evaporation Gauge Tester

The **Model 255-110 Evaporation Gauge Tester** works with the 255-100 Evaporation Gauge to provide a direct reading in inches, corresponding to the output from the evaporation gauge.

The tester is used to set-up the evaporation gauge during initial installation and can be used to provide a direct reading of daily evaporation loss.



255-110 Evaporation Gauge Tester

Specifications

Range: 0 to 10.00 inches
 Resolution: 0.01 inches
 Temperature range: 0° to 50°C (32° to 122°F)
 Humidity range: Non-condensing
 Accuracy: Better than $\pm 0.25\%$ of reading
 Display: 3-1/2 digit, 7 segment 0.5" high LCD
 Batteries: 9 V display, 1.5 V tester
 Size: 5" H x 3" W x 2" D
 Weight/shipping: 12 oz/2 lbs

Ordering Information

255-110	Evaporation Gauge Tester
255-100MS	3-Pin MS Connector Option