

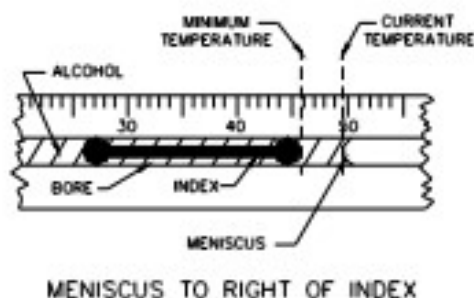
210-4420 Series Min-Max Thermometer Set

The **210-4420 Thermometer Set** is made to U.S. National Weather Service specifications. The set includes an alcohol-filled minimum thermometer, a mercury-filled maximum thermometer, and a Townsend support fixture. The support fixture holds the thermometers in the correct operating positions, allows pivoting to the correct orientation for reading, and then facilitates resetting them.

Each thermometer is 11" (280mm) long with graduations and numerals etched in the glass stem. Gradations are 1 °Fahrenheit or 0.5 °Celsius depending on the model. The thermometers are secured to a stainless steel metal plate which can be clamped in the support fixture.

Minimum Thermometer

The minimum thermometer is alcohol-filled and has a dark colored float (index) that is held in tension in the capillary. The float moves downwards with lowering temperatures. As temperatures increase, the float remains fixed at the minimum temperature.



Maximum Thermometer

The maximum thermometer is mercury-filled and has a constricted capillary just above the bulb which prevents the mercury from flowing back with lowering temperatures. The column of mercury remains fixed at the warmest temperature to which it has been exposed.

Features

- Accuracy: ± 0.15 °F above 32 °F or ± 0.2 °C above 0 °C
- Gradations: 1 °F or 0.5 °C
- Dimensions: 10.5" L x 1" W (267 mm x 25 mm)
- Weight/shipping (Min & Max set): 2 lbs / 5 lbs (0.9 kg / 2.3 kg)



Minimum & Maximum Thermometers on Townsend Support

Townsend Support Installation

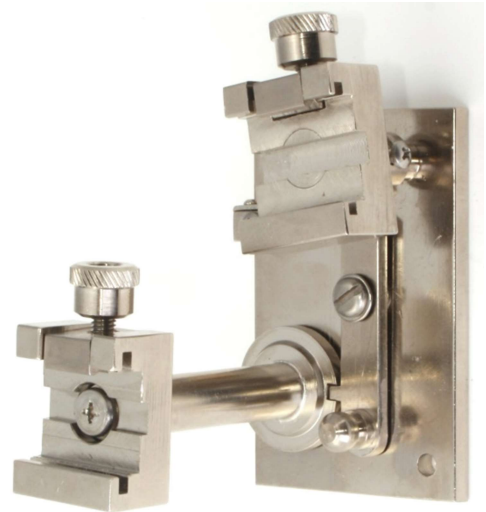
The mounting plate has two holes for securing the support inside a louvered shelter (not supplied). The "maximum" thermometer is installed in the lower support fixture, while the upper fixture holds the "minimum" thermometer.

Operating Positions

In operation, the "maximum" thermometer is held with the bulb approximately 5 degrees above horizontal, while the "minimum" thermometer's bulb is 5 degrees below horizontal.

Reading Positions

The "minimum" thermometer is read first, without changing its position. The "maximum" thermometer is unlocked by pulling aside a lever, and pivoted so that it is vertical with the bulb at the bottom. Then the maximum recorded temperature is read at the top of the mercury column.



Reset

The final step is to reset the thermometers and then return them to their operating position. The "minimum" thermometer is inverted until the internal float reaches the end of the alcohol column. The "maximum" thermometer must be whirled by releasing the catch and spinning the assembly. The thermometers are then oriented to the reading positions and compared to ensure they have been reset correctly. Return the thermometers to their operating positions and make sure the latch is engaged.

Complete instructions for the Townsend support and thermometers can be found here:

<https://novalynx.com/manuals/210-4420-4421-manual.pdf>

Ordering Information

210-4420	Min-Max Thermometer Set Fahrenheit. Includes:
210-4429	Minimum Thermometer, -50° to +120°F
210-4425	Maximum Thermometer, -38° to +130°F
210-4422	Townsend Support
210-4421	Min-Max Thermometer Set Celsius. Includes:
210-4430	Minimum Thermometer, -45° to +50°C
210-4426	Maximum Thermometer, -38° to +55°C
210-4422	Townsend Support