



EVAPORATION SENSOR OMC-459

The Obsermet OMC-459 Evaporation pan is a Class A evaporation pan of cylindrical design, 25.4 cm deep and 120.7 cm in diameter. The bottom of the pan is supported three or five centimeters above the ground level on an open frame wooden platform, which permits air to circulate under the pan, keeps the bottom of the pan above the level of water on the ground during rainy weather, and enables the base of the pan to be inspected without difficulty. The pan itself is constructed of stainless steel 0.8 mm thick and is normally left unpainted.

Features:

- Class A evaporation pan according to WMO
- Complete with stilling well in which a float measures the level
- Accuracy 0.1% over the range
- Delivery including wire netting
- Ideal to use in low power systems
- Optional automatic filling



GENERAL

The pan is delivered with a protective wire netting including a frame to prevent animals drinking the water.

The water level is measured by means of a float measuring device to measure the water height in the pan.

The sensor is mounted on top of a stilling well installed beside the pan. The stilling well prevents rippling of the water surface by wind, which increases the accuracy of measurement.

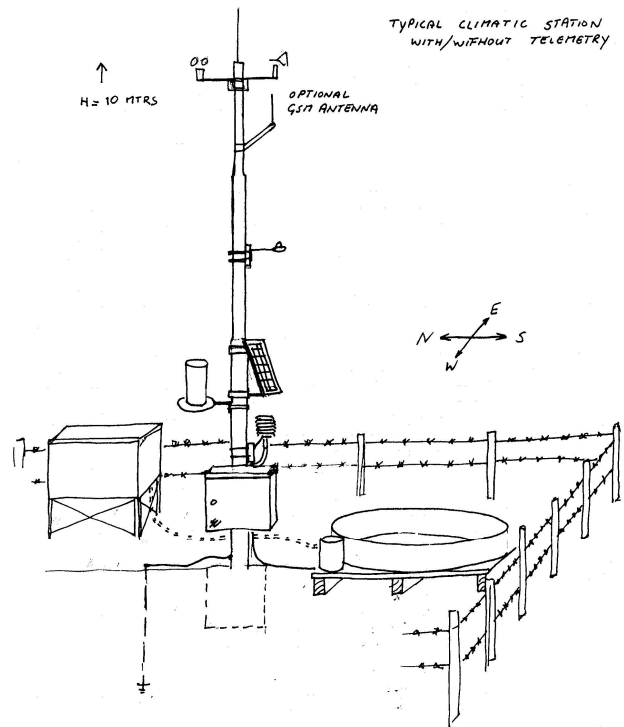
The sensor operates on the proven float and counterweight principle. The float has a diameter of 100 mm. The float is attached to a stainless steel tape.

This tape runs over a pinwheel and is connected to the counterweight. Any change in level will result in a movement of the pinwheel. This movement is detected through a precision resistance transmitter connected to the sprocket wheel

DATA SUMMARY

Pan stainless steel 120.7 mm dia.
Stillingwell 50 cm high
Measuring range 0...30 cm
Non linearity 0.1%
output Resistance 2 k Ohm

Typical climatological station in which a evaporation pan is used.



 **OBSERVATOR**
instruments

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