

# 6529 Automatic Evaporation Monitoring System

The Model 6529 Automatic Evaporation System operates an evaporation pan and records evaporation and rainfall data. The instrument is normally supplied as a complete package with a US Class A evaporation pan and all installation fittings. It can be connected to any other type of pan.

The 6529 system is designed to operate for long periods without maintenance. The water level transducer and data logger operate for one year from internal batteries.

The water level control system is solar powered. The water supply to refill the evaporation pan is provided by the user from a tank or a reticulated water supply pipe. Rainfall removed from the pan can be recycled if required.

The unit is supplied with a high or low pressure solenoid (you must specify). The high pressure solenoid is used for mains pressure water supplies. The low pressure solenoid is used for gravity fed water supplies

The datalogger included with the unit is fully programmable and has all the STARLOG features. These include event and time interval recording, programmable measurement and recording intervals, signal processing such as average, max, min and computations including flow conversions and rating tables.



A water temperature sensor and a range of weather sensors can be added to identify the relationship between pan evaporation and site conditions. These are required for evaporation and evapo-transpiration studies and modeling

An optional telemetry system can be connected to the datalogger. Landline, cellular, satellite and radio communication links can be used to monitor data acquisition and operate the site.

## Specifications

Range:	30mm to 250mm. Pan empty to full.
Resolution:	0.2mm of evaporation or rainfall.
Accuracy:	+/- 0.4mm
Level Reset:	Programmable. Default reset to 200mm (+/- 1mm) at a preset time each day.
Water Level :	6541 Water Level Instrument with 512k Micrologger.
Power Supply:	0.3Ah/day.
Battery:	Model 6907B 12V, 7Ah sealed lead acid.
Charger:	Model 6904B 12V 2W solar panel mounted on aluminium enclosure.
Pan Type:	ID 1208mm, OD 1290mm, Depth 250mm - US Class A compatible.
Pan Mounting:	Timber frame - 1300mm x 1300mm treated plantation softwood.
Pan Bird Guard:	12mm square steel mesh. Hot dip galvanised.
Control Enclosure:	Aluminium - 320mm x 300mm x 750mm (WxDxH).
System Weight:	Approx. 52kg.

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