

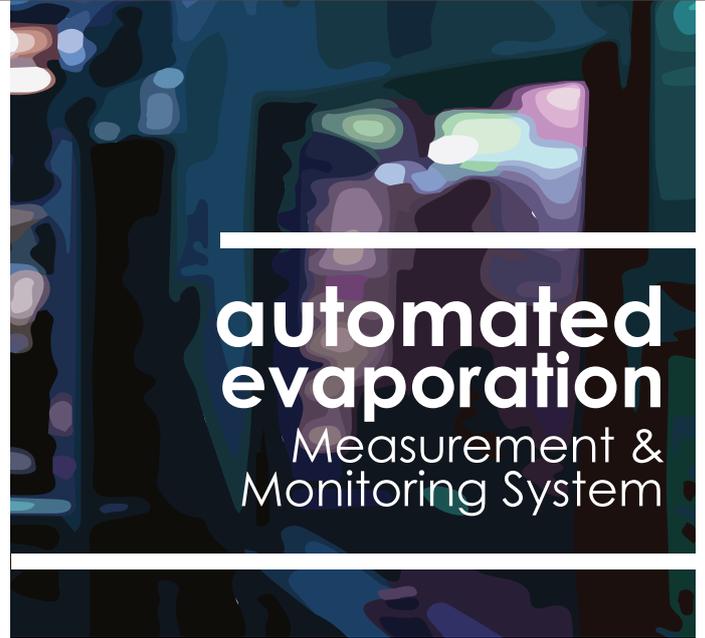
automated evaporation

Measurement & Monitoring System



The EPAN (Evaporation Pan) System is an automated solution designed to accurately monitor evaporation rates for hydrological and water resource management applications. The system enables continuous and reliable data collection, reducing the need for manual observation while improving measurement accuracy. Equipped with integrated sensors, data logging, and telemetry capabilities, the EPAN System supports real-time monitoring and remote data access through a centralized platform. Its robust and weather-resistant design ensures reliable performance under diverse environmental conditions, making it suitable for long-term outdoor deployment. The EPAN System is ideal for use at hydrological stations, irrigation schemes, reservoirs, and environmental monitoring sites where precise evaporation data is essential for effective water management and planning.



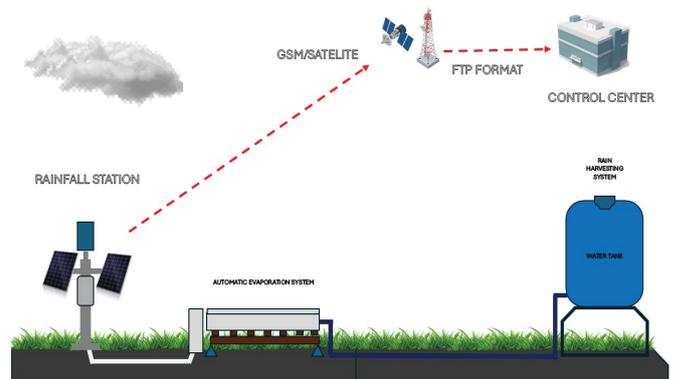


Major Component

- Evaporation Pan (Class A)
- Water Level Sensor
- Stilling Tube/Sensor Holder
- Controller Module
- Telemetry Module
- Software Platform

Accessories Component

- Bird Guard
- Measuring Gauge (Ruller)
- 200 Gallon Water Tank (Rain Harvesting System)



How the EPAN System Works

SPECIFICATIONS

Evaporation System

Pan Type: Compatible with US Class A evaporation pan

Material: Stainless steel

Construction: Welded

Measurement Range: Max. 255 mm

Resolution: 0.1 mm evaporation measurement

Accuracy: ± 1 mm

Level Reset: Programmable; default automatic reset to 200 mm or 191mm (± 1 mm) at a preset daily time,

Bird Guard: Optional, with hinged access door

Pan Size: 255 mm (height) \times 1,225 mm (diameter)

Packed Weight: Avg. 55 kg

Level Sensor

Type: Submersible level sensor

Measuring Range: 0–500mm

Output Signal: 4–20 mA (optional: 0–5 V, 1–5 V, 0–10 V)

Power Supply: DC 12 V / 24 V

Accuracy / Stability: $\pm 0.2\%$ FS

Response Time: ≤ 1 ms (90% FS)

Operating Temperature: -40 °C to $+60$ °C (medium)

Material: 316L stainless steel

Motorized Valve

Valve Material: Brass

Sizes: DN25 (1")

Voltage: DC 9–36 V Operating Current: 200 mA

Working Pressure: 0–1.0 MPa

Medium Temperature: 0–100°C

Protection Rating: IP67



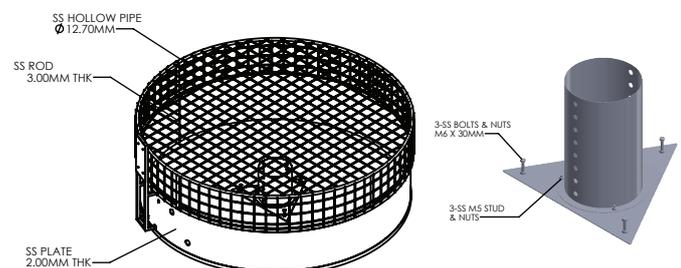
Water Level Measurement -The standard evaporation pan holds water, and the water level sensor continuously measures changes.



Data Collection – The sensor sends readings to the data logger at regular intervals

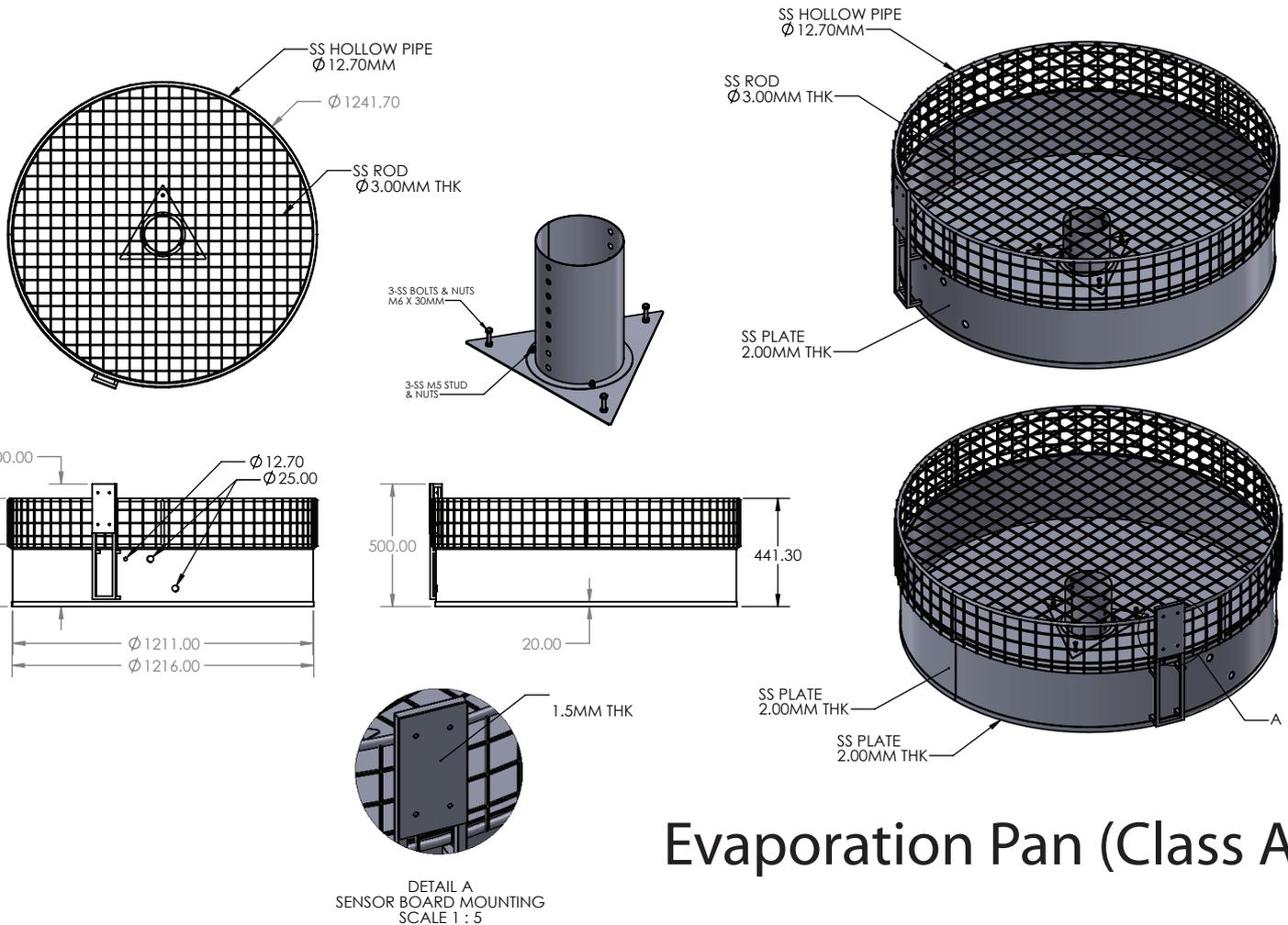


Monitoring & Analysis – Software processes the data to calculate evaporation rates, generate reports, and support water management decision



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Evaporation Pan (Class A)

