

WATER LEVEL MONITORING

Etrans SSA-AI Datasheet

AI-Powered, Real-Time
Water Level and Flow
Monitoring Station.

Precise Measurement,
Ultimate Control

www.enelean.com



Level Monitoring

MODEL Etrans-SSA-AI



Application Areas

- River and Basin Management
- Flood Early Warning Systems
- Dam and Reservoir Level Monitoring
- Water and Wastewater Treatment Plants
- Agricultural Irrigation Canals
- Hydroelectric Power Plants (HEPP)
- Smart City Water Infrastructure
- Industrial Discharge Monitoring

Features

- **AI-Powered Analytics:** Advanced algorithms for predictive analysis, trend forecasting, and early anomaly detection.
- **Remote Access & Cloud Integration:** Secure online platform for monitoring data from anywhere, at any time.
- **Instant Alert System:** Automated SMS and email notifications triggered by user-defined critical thresholds and flood risks.
- **High Measurement Precision:** State-of-the-art sensor technology ensuring reliable, stable, and accurate data collection.
- **Rugged Industrial Design:** Weather-resistant and durable housing (IP67/IP68) engineered for harsh environmental conditions.
- **Energy Efficient:** Ultra-low power consumption with seamless compatibility for solar panel integration.

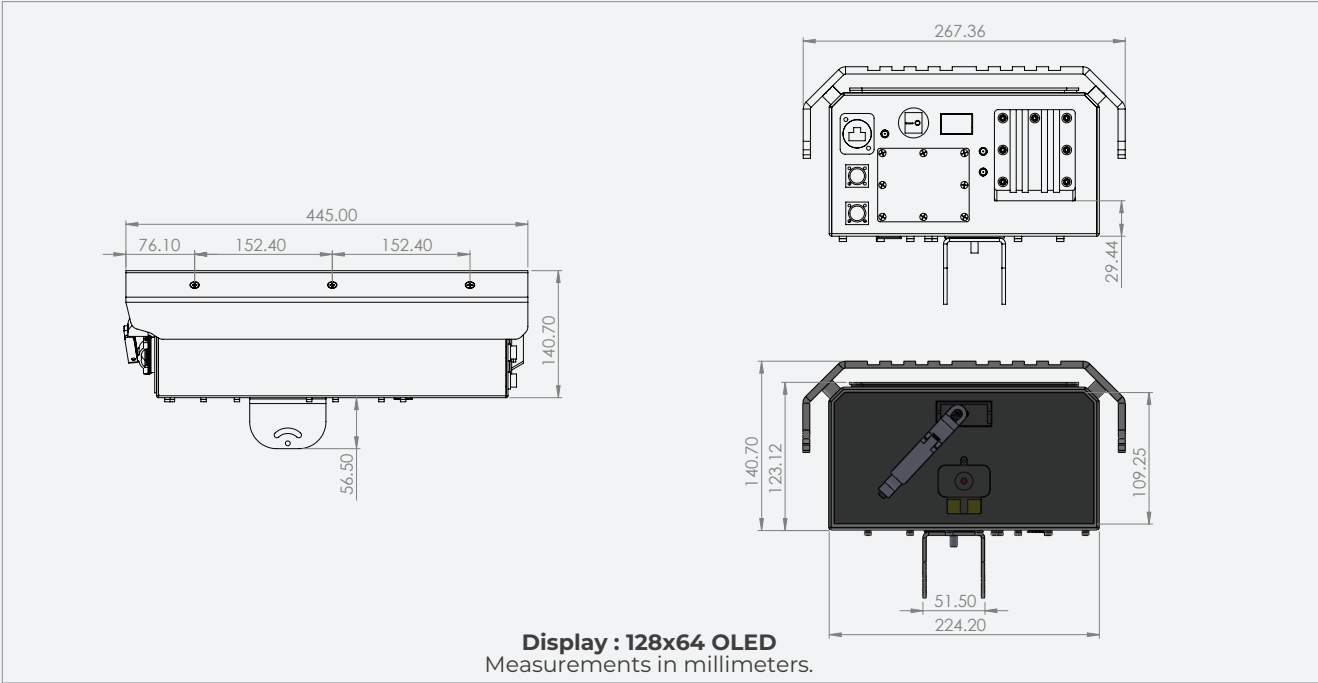
Description

The Etrans-SSA-AI by Enelsan represents the next generation of industrial measurement and flow control. Designed as a state-of-the-art online observation station, it leverages advanced artificial intelligence to provide continuous, real-time monitoring of water levels and flow velocities. This smart integration not only ensures high-precision data collection but also empowers facility managers and environmental engineers with predictive analytics, allowing for proactive decision-making and anomaly detection in highly dynamic conditions.

Built to withstand harsh environments, the Etrans-SSA-AI is an essential asset for a wide range of critical applications, from flood early warning systems and hydroelectric power plants to complex industrial discharge networks. By combining rugged durability with seamless cloud connectivity and instant alert mechanisms, it delivers unmatched reliability. This ensures that vital water infrastructure operates safely, efficiently, and with the ultimate precision that modern industries demand.



Structure



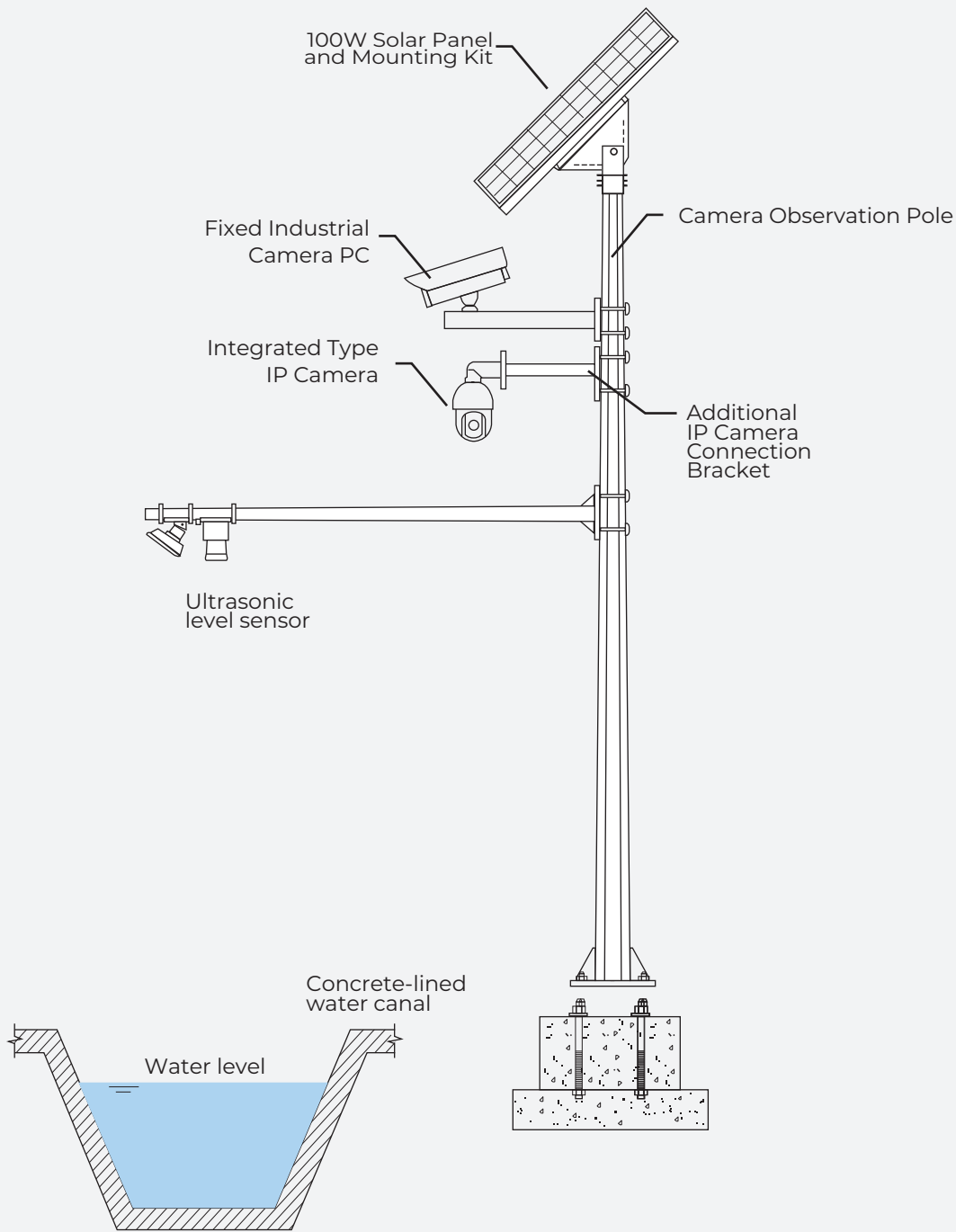
Product Features

Processor	ARM 64-bit Quad-core 1.8 GHz
RAM	2GB / 4GB / 8GB LPDDR4
Storage	EMMC 32-128GB / SSD 256GB+
Connectivity	WiFi 2.4/5GHz, BT 5.0, GSM LTE Cat 4
LoRa	433/868 MHz, 5+ km range
Battery	60000 mAh Li-ion (12.6V)
Built-in Camera	2560x1440 px, JPEG & PNG
AI Performance	TensorFlow, ONNX, Keras, PyTorch supported
Sensors	Level (0-20m), Flow rate
Interfaces	RS485, USB3.0/2.0, HDMI, MIPI, GPIO, etc.
Ethernet	1000 Mbps RJ45
Operating Temp.	-20 / +60 °C
Cooling	Internal fan, aluminum top casing

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Technical Diagram



Contact us

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