



INNOVATION
MADE IN MALAYSIA



ONE SMART MONITORING SYSTEM

Seamlessly Compatible with
:- Archimedean Screw Pumps
:- Submersible Pumps

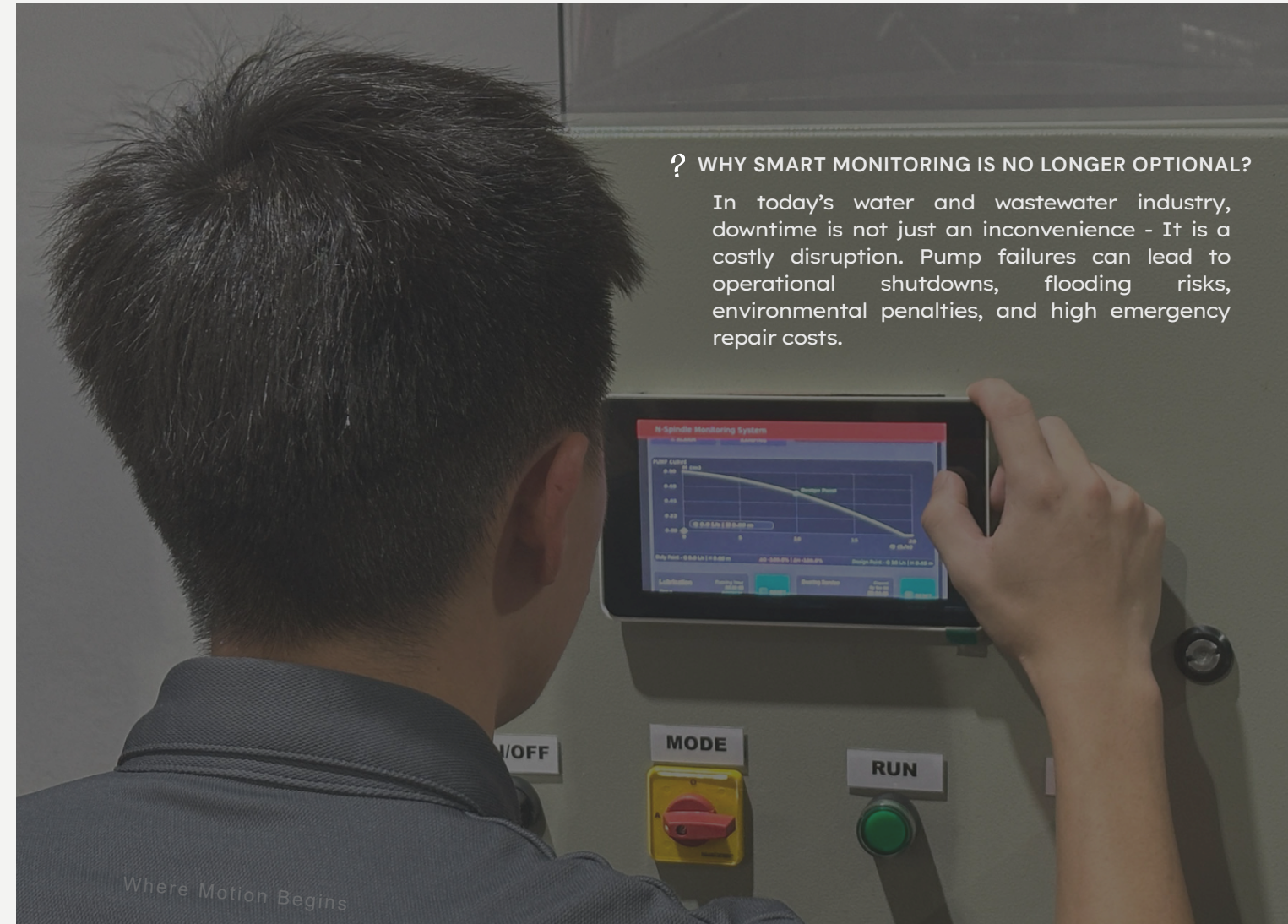
NEW IOT SMART SYSTEM NS[®] HYDRO GUARD

Intelligent Live Monitoring. Total Pump Visibility. Anytime. Anywhere.

The future of an ideal pump management lies in visibility, intelligence, and control. NS Hydro Guard is an exclusive IoT System on 24/7 live remote monitoring compatible with any Archimedean Screw Pump or Submersible Pump, providing real-time pump condition monitoring, performance analytics, and automated alerts, accessible anytime, anywhere via secure online connection.

Technical Overview

System Type	: Local storage / Cloud-based IoT monitoring platform
Monitoring Mode	: Real-time continuous data acquisition
Connectivity	: Secure remote cloud-based access
Access Device	: Any desktop, tablet, mobile
Data Storage	: Historical trend analysis & logging
Alert System	: Automated notification & instant group escalation
User Tier Configuration	: Customizable access hierarchy (Multiple users simultaneously, while control functions are restricted to a single authorized master user)



? WHY SMART MONITORING IS NO LONGER OPTIONAL?

In today's water and wastewater industry, downtime is not just an inconvenience - It is a costly disruption. Pump failures can lead to operational shutdowns, flooding risks, environmental penalties, and high emergency repair costs.

Vibration & Temperature Monitoring

Detects imbalance, misalignment, bearing wear
Early warning of mechanical failure
Trend analysis for predictive maintenance

Performance Curve Monitoring

Real-time performance tracking
Detect deviation from optimal efficiency
Identify overload or underperformance

Service Hour Reminder & Alerts

Tracks total operating hours
Automated maintenance notifications
Prevents overdue servicing

Remote Capabilities

Live view pump status
Receive instant alarm and reset online
Checking running hours

System Security

Local server deployment
Password protected role-based access
Encrypted communication (optional upgrade)



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