

SEE IT ALL WITH VALVE MONITOR



Industrial plant's pipeline has long lacked clear feedback on valve status, putting plant at potential risks and unexpected operational halts. IVM addressed this issue by continuously monitoring valve status and provide critical valve information.









PRODUCT FEATURES



Emission Detection

The system vigilantly monitors stem pressure, promptly detecting deviations to ensure optimal function and prevent emissions.

Valve Position

The sensor precisely measures valve angles to 360°, ensuring accurate closure and leakage prevention, and also identifies on/off positions.



Valve Torque

Torque monitoring informs maintenance based on real valve wear, therefore enhancing longevity and reducing unexpected downtime.



Cycle Counter

The cycle counter records the number of valve open/close actions, supplying data to inform proactive maintenance and enhance system safety.



Traceability

The integration with Transworld's traceability system ensures accountable operations, aiding in troubleshooting and enhancing maintenance reliability.

LED Indicator

The LED light indicates valve statuses with seven customizable colors, facilitating quick identification and signaling issues to prevent incidents.

BLUETOOTH CONNECTIVITY & Remote Monitoring

The IVM utilizes Bluetooth to deliver immediate valve metrics and emissions data via a user-friendly app and web interface, ensuring quick troubleshooting and improved safety while presenting all essential details at a glance.







HOW IT WORKS

Transworld has pioneered an IIoT system that stands at the intersection of modern advancements and the approaches of the Industry 4.0 revolution. Strategically positioned between the valve and actuator, this direct contact at the source enables detection of subtle changes, offering authentic data to improved system performance and safety.

WIRELESS

INTEGRATION WITH MODERN TECHNOLOGIES

This system facilitates the seamless incorporation of the latest technological breakthroughs, opening avenues for further innovations and improvements. It facilitates the adoption of smart technologies, offering a platform that is ready for the future and can adapt to evolving technological landscapes. In the modernized setup facilitated by the IVM, operators are relieved from the necessity of using limit switches and intricate sensor wiring. This significant shift brings forth a range of substantial benefits, fostering an environment of improved safety and streamlined operations, as detailed to the right.



We offer MQTT to customers to facilitate the creation of an enterprise management situation room to elevate the factory's security.

Enhanced Safety

Replacing complicated sensor wiring reduces the risks of electrical faults, physical tripping hazards, and other safety concerns traditionally associated with physical wiring systems. The streamlined setup is inherently safer, helping to prevent accidents and maintain a more secure working environment.

Cost-Efficiency

The system not only simplifies maintenance but also proves more cost-effective in the long run by minimizing downtime, shifting the focus from unexpected breakdowns to planned maintenance, thus economizing on resources and time.

Ease of Operation

Through using IVM, operators can find a more straightforward and user-friendly system. This ease of operation allows for a more focused approach to task management, reducing the cognitive load and minimizing errors due to oversight of the existing complicated systems.

Sustainability

The removal of the reliance on materials for wiring and other components marks a step towards a more sustainable operational setup. By reducing the materials, the system becomes more environmentally friendly, aligning with the goals of modern enterprises to minimize their ecological footprint.

TECHNICAL DATA

Specification	
Material	Stainless Steel and Polycarbonate (PC)
Product life span	5 years with 1 year warranty
Data record system	300 records (30 days cycles)
Fluid operating temperature	-55°C ~ 260°C
Ambient temperature	-30°C ~ 70°C
Power supply	M12 Connector / DC24V
IP ratings	IPX6
Applicable Valve Size	ISO5211 F03/F05/F07/F10
Dimension	L150*W92*H84 (mm)
Weight	2.7kg
Monitoring media	App / web interface
Product features	
Light display	Available in 7 colors for customizations
Maximum torque	140 Nm
Maximum pressure of emissions	126 Кра
Detection zone	360°
Tolerance	±0.1
Connection type	
Wired transmission	Modbus RTU / IO-Link / EtherCAT (Option)
Wireless transmission	Bluetooth 5.0



The Intelligent Valve Monitor (IVM) system improves plant safety and reliability by offering instant valve status feedback via an app with LED indicators.

It prevents disruptions and reduces risks by facilitating predictive maintenance through advanced sensors for accurate data.

IVM signifies the advancement of industrial processes towards efficient, safe, and tech-driven maintenance.

For more information please go to https://www.tawdvalve.com



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