

# SMART SR-VALVE

A SMART & Remote Controlled Automation Solution  
for efficient valve operation & monitoring

The New SMART SR-Valve System is a total cloud based end to end solution for efficient management and monitoring of remote location valves for water, mining and other industry applications.

The SMART SR-Valve System incorporates IOT & Industry 4.0 Technologies, features a fully integrated stand alone solar power supply and associated SMART components to enable remote control capabilities, delivering enhanced control & a cost effective solution for remote applications.



## KEY FEATURES

- Complete automation package for remote valve control and condition monitoring
- Fully integrated power supply unit, no trenches required to power operation
- Remote battery condition monitoring
- Easy to use dashboard interface for simple operation through IOT cloud platform
- Remote control of single valve or multi valve applications
- Minimal environmental impact during install
- No hydraulic oil, safe use in environmentally sensitive areas
- Quality manufacture to ISO9001
- European valve with sizes up to DN1200

## TYPICAL APPLICATIONS

- Tailings & waste water remote lines
- Water pipeline with remote location - long pipelines
- Hydro power applications
- Temporary installations; dewatering, bypass pumping, flooding response



## HOW IT WORKS

The SMART SR-Valve System is designed with a custom integrated SystemCORP Energy Solar power supply, providing the user greater flexibility with no power or trenches required for operation.

All components installed are intelligent electronic devices which communicate with an IOT gateway.

A battery charger manages and monitors solar panels and the battery.

A linear actuator operates the valve functions and monitors the health of the actuator and valve.

The IOT gateway is continuously receiving information from the system components, communicates to cloud computing applications providing local control through a built in programmable logic controller.

Cloud computing options provide an easy to use operator interface using simple, user friendly intuitive dashboards.



## SYSTEM SETUP & INTEGRATION

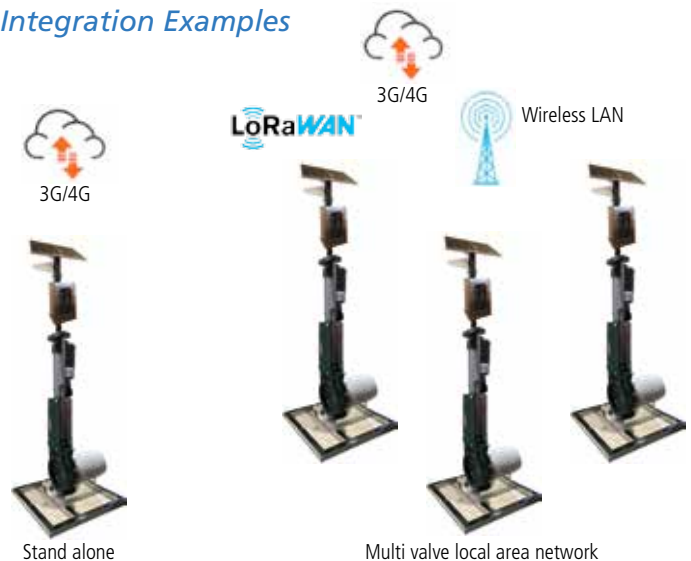
Communication options allow a single valve to be controlled and monitored in remote areas via the GSM network at low cost. Integrating several valves on site is possible by linking all valve stations via local area networks such as LoRa or Wi-Fi into one central server, which links all valve sites to the dashboard application in the cloud.

Valve cloud control and monitoring applications can be hosted by the end-user or we can provide full cloud hosting services.

- Cloud interface via Cellular 3G/4G LTE or any other internet connection
- Local mesh networking and grouping of valves in rugged terrain
- Ready for AZURE and AWS cloud interfaces
- Integration options into on-site automation or distributed control system
- Cloud application hosting by end user possible
- Full cloud hosting options can be provided



### Integration Examples



## ON-SITE INSTALLATION

### Cloud Valve Monitoring & Control Interface

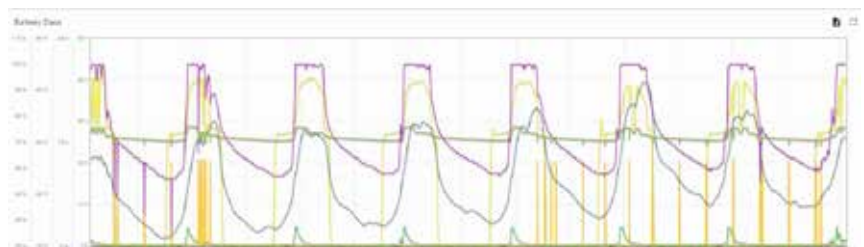
- Shows valve position in real time
- On screen open/close control panel
- Allows partial open/close valve position operation
- Valve operation counter & historical data for preventative maintenance
- Integrated valve event and alarm list
- Geo-map valve locator function

### Cloud Power Supply Monitoring Interface

- Shows battery charge condition in real time
- Shows solar charger and panel condition in real time
- Monitors battery capacity for preventative maintenance
- Monitors ambient temperature avoiding excess current discharge from battery
- Integrated battery event and alarm list



Controller cabinet, GSM antenna & PV panels



**Get in touch today to find out how the SMART SR-Valve System can work for you**

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