

REMOTE SHUT DOWN (RSD)

Gateway-controlled asset monitoring and shutdown.
 PLC-controlled asset monitoring and shutdown

- NO PLC PROGRAMMING REQUIRED
- SIMPLE TABLE-BASED CONFIGURATION LOGIC
- CONFIGURABLE FAILSAFE FEATURES
- LONG RANGE: 3+ MILES



TOPOLOGIES

Gateway-Controlled

- May be configured to monitor and control as a standalone system
- A PLC may be used to offload sensor data

PLC-Controlled

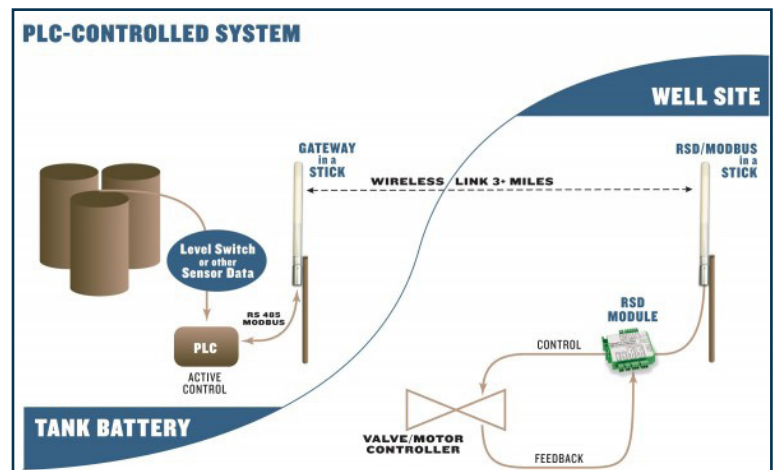
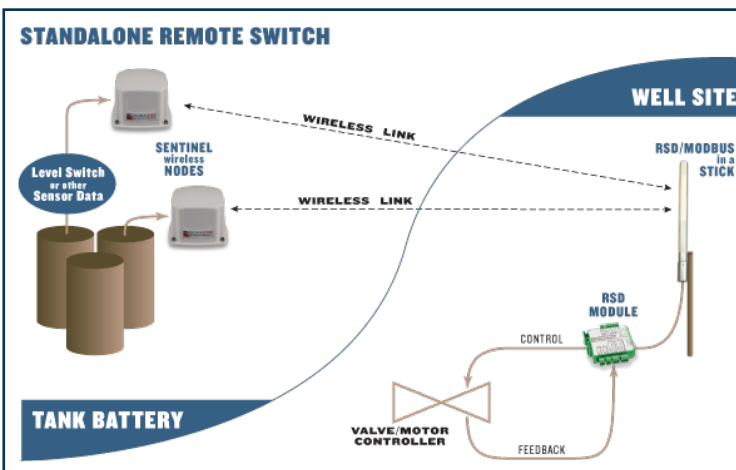
- A PLC monitors and controls remote assets through a Gateway, which relays data to the remote assets

Standalone Remote Switch Mode

- No Gateway required, remote sensor data is sent directly to a RSD-Stick
- The RSD-Stick uses its internal configuration logic to trigger shutdowns based on remote sensor data

STANDARD CONFIGURATION ORDER CODE

ORDER CODE	DESCRIPTION
MBS-RSD	RSD-Stick with DIN mounted RSD Module. 2 relays, 2 digital inputs



REMOTE SHUT DOWN (RSD)

TECHNICAL SPECIFICATIONS

Operating Temp

-40°C to 70°C

Power

6-36 VDC

Relay Outputs

2A, 30V, SPDT

Digital Inputs

Dry contact or 30 volts max (push-pull)

Radio Power

500 mW

Antenna Gain

5 dB

Receive Sensitivity

-105 dB

Frequency

902-928 MHz license-free ISM band,
FHSS, FCC part 15 compliant

Range

3+ miles (line of sight)

Internal Diagnostics

Supply voltage, signal strength, error
conditions

Failsafe Operation

Multiple configurable failsafe timers.
Relay fault monitoring.

SIMPLE TABLE-BASED CONFIGURATION LAYOUT

Remote Shutdown Settings

Remote Shutdown settings with the same Destination Relay will ALL need to meet the Run System (Energize) condition in order to run the system

	Source Node				Relay Control Logic				Destination Counter/RSD Stick				
	Slave ID	Node Type	Register Address	Register Type	Current Register Value	Run System (Energize Relay) when...	Value	Shutdown System (De-energize Relay) when...	Value	Number of Readings	Slave ID	Relay Channel	Current Relay State (readonly)
1	100	Sentinel H...	4005-HAR...	32bit FLOAT	99.2606	Less than	100	Greater than	110	1	1	1	Unknown
2	101	Sentinel H...	4011-HAR...	32bit FLOAT	0.0301919	Greater than	5	Less than	4	1	1	1	Unknown
3	102	Sentinel H...	4009-HAR...	32bit FLOAT	19.7995	Less than	15	Greater than	16	1	1	2	Unknown
4	0	None	0	16bit UINT	Unknown	Greater than	0	Less than	0	1	0	1	Unknown

Read Remote Shutdown Settings from Gateway Failsafe Enabled - Missing Slave or Register results in Relay being De-energized

Write Remote Shutdown Settings to Gateway Latch De-energize - Requires RTU to Re-energize Relay via Modbus Coil Write

Save to File Load from File Clear Remote Shutdown Table

Success