

Ready-to-install Lift Station Automation Kit

m.Smart™ Automation Kit (MAK)

The MAK is a ready-to-install automation kit complete with power, an automation controller/gateway, expandable I/O, and a Nema 4 rated enclosure. It includes a pre-installed SmartController™ application for sewage lift stations that can be customized to meet any application.

Easy-to-use Sunlight Readable User Interface

Monitor wet well level, pump amps, pump run time, and other parameters locally using the sunlight readable LCD.

Controls up to 6 pumps

Lead/lag and pump/group rotation logic is included. Individual local and remote AHO control of each pump. Works with contactor and/or VFD.

Redundant Level Monitoring

Supports up to 2 level monitors including floats, rod level sensors, pressure-based level sensors and radar level sensors. The standard MAK comes with a PulsarQ level sensing radar.

Rich Diagnostic Monitoring

Our standard pump station MAK includes monitoring for power loss, pump amperage, and pump overload. This can be extended with phase monitors, generator health, and flow monitoring.

Reliable and Secure

The internal LTE CAT M1 cellular modem connects to the cloud using AT&T, T-Mobile or Verizon, automatically switching between carriers for best QOS. All data is double encrypted – once between the modem and the tower, and again between the device and our cloud platform. Each device has unique, revocable encryption credentials.



Sunlight Readable LCD

- View all process values
- Change modes and setpoints
- Status lines – RSSI, pump run/error

Secure, Reliable Cellular Connectivity

- LTE CatM1 – works with AT&T, T-Mobile and Verizon
- Double encryption with unique, revocable encryption creds per device
- Automatically pulls updated configuration and programming from cloud

Expandable I/O

- Includes I/O for run out, run in, and speed for two pumps, power monitoring, pump amp monitoring, 4 floats and analog level sensors (rod, radar, pressure, etc)
- Expandable – up to 192 I/O, and PulsarQ™ radar level sensor and any Modbus RTU capable device.

Durable and Easy to Maintain

- Multiple Nema4 enclosure options – PC, Stainless Steel and Carbon Seal
- 10 minute field replaceability makes maintenance a breeze
- 144 Watt SmartUPS – minimum of 8 hours battery backup, 110V AC supply

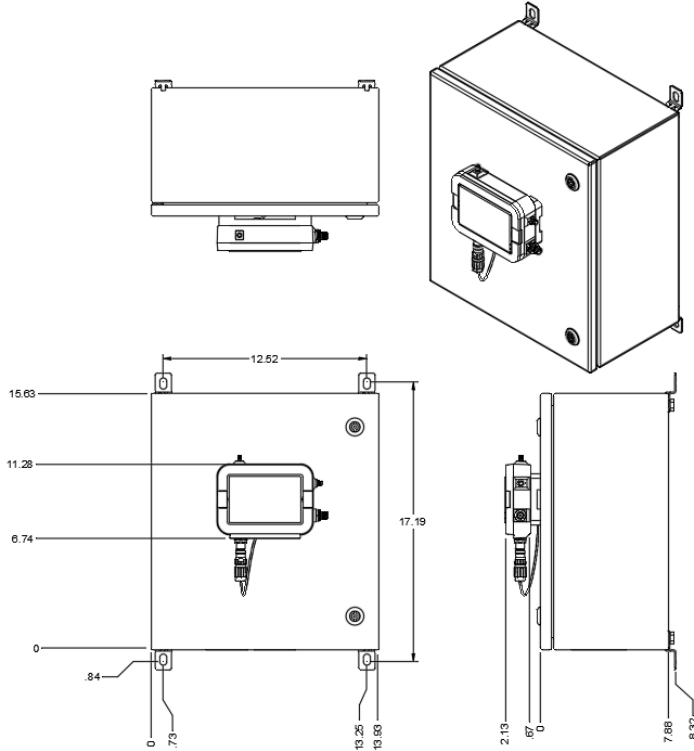
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|-------------------|---|
| Wastewater | Monitoring and control for lift stations (up to 6 pumps), clarifiers, chemical feed, headworks, generators, power quality, weir flow monitoring, and just about any other application in a wastewater system. |
| Water | Monitoring and control for pump stations, wells, towers, tanks, master meters, leak detection, high service pumps, generators etc. |
| Other | Cloud based monitoring and alarming for existing SCADA systems, flow meters, leak detection, lake/pond level, etc. |



m.Smart™

Classic Lift Station Automation Kit

Mechanical



Ordering Information

| Part Number | Description |
|--------------------------------|--|
| MAK-SC-LS-U-2-B-006-P-1614-0D0 | Lift Station, 144 watt UPS, poly carb 16x14 enclosure, 2x100A Split Core CT, Dual Pump, Radar |
| MAK-SC-LS-U-2-B-006-S-1513-0D0 | Lift Station, 144 watt UPS, stainless 15x13 enclosure, 2x100A Split Core CT, Dual Pump, Radar |
| MAK-SC-LS-U-2-B-006-C-1513-0D0 | Lift Station, 144 watt UPS, carbon steel 15x13 enclosure, 2x100A Split Core CT, Dual Pump, Radar |



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