

Ready-to-install Pump 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 pump stations that can be customized to meet any application.

Easy-to-use Sunlight Readable User Interface

Monitor tower level, pressure, flow rate, and other parameters locally using the sunlight readable LCD.

Controls up to 32 local and/or remote pumps or wells

Pumps/wells can be grouped together and started/stopped in groups to maintain desired flow rate. Lead/lag and pump/group rotation logic is included. Individual local and remote AHO control of each pump or well.

Tower Level and Pressure Station Modes

Master pump stations can control pumps based on tower level (start/stop setpoints) or discharge pressure (PID loop with target pressure setpoint or start/stop setpoints). Automatic failover from Tower Level to Pressure mode if communications to tower are lost.

Rich Diagnostic Monitoring

Our standard pump station MAK includes monitoring for suction and discharge pressure and a pulse output flow meter. This can be extended with additional pressure sensors, m.Chem™ smart water chemistry sensors, and PulsarQ™ level sensing radar for clear wells, chemical tanks, etc.

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, suction/discharge pressure, and flow meter.
- Expandable – up to 192 I/O, m.Chem™ water chemistry sensors, 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

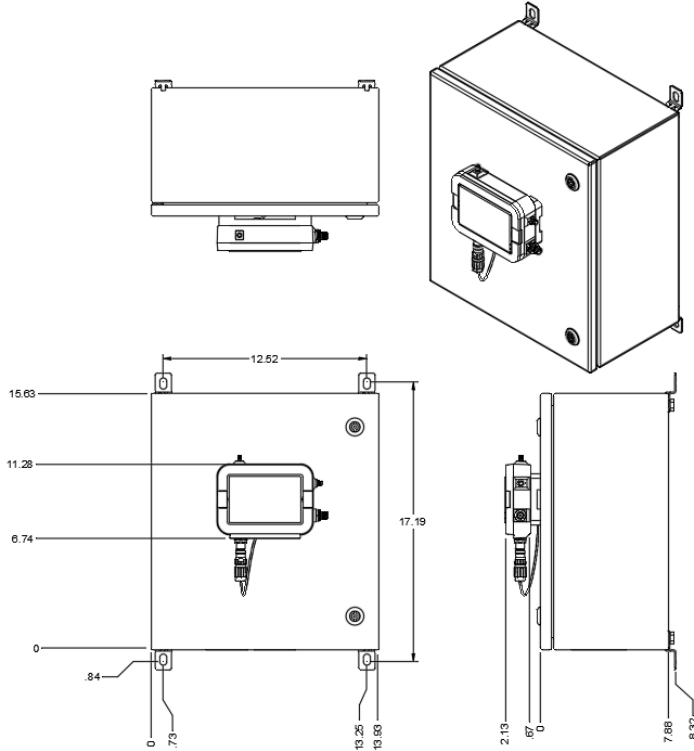
Wastewater	Monitoring and control for lift stations (up to 6 pumps), clarifiers, chemical feed, headworks, generators, power quality, weir flow monitoring, and just about any other application in a wastewater system.
Water	Monitoring and control for pump stations, wells, towers, tanks, master meters, 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 Pump Station Automation Kit

Mechanical



Ordering Information

Part Number	Description
MAK-SC-PS-U-2-B-006-P-1614-000	Pump Station Kit, 144 watt UPS, polycarb 16x14" enclosure, 100/200 psi pressure sensors
MAK-SC-PS-U-2-B-006-S-1513-000	Pump Station Kit, 144 watt UPS, stainless 15x13" enclosure, 100/200 psi pressure sensors
MAK-SC-PS-U-2-B-006-C-1513-000	Pump Station Kit, 144 watt UPS, carbon steel 15x13" enclosure, 100/200 psi pressure sensors



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