

Ready-to-install, Secure Process Monitoring Gateway

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.

Easy-to-use Sunlight Readable User Interface

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

Cloud Configurable

Configure all tags (scaling, Modbus params, units, etc) in the cloud and the MAK will automatically download the configuration to reflect the changes.

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.

Expandable

The MAK can be expanded with additional I/O, level detection via our PulsarQ™ level sensing radar, and chemistry monitoring via our m.Chem™ family of smart water chemistry sensors.

Flexible Power Options

The MAK can be configured with a solar power kit (for outdoor applications such as water towers, master meters, and leak sensors) or a SmartUPS power kit.

The solar power kit provides 7 days of autonomy when there is no sun. Solar and battery voltage are both monitored by the MAK.

The SmartUPS power kit takes 110VAC and provides 24V of battery backed up power for the electronics with a minimum backup period of 8 hours during power loss. Battery voltage and power loss are both monitored by the MAK.



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 two 4-20mA analog inputs and 6 digital inputs for monitoring tower level, flow meter rate and total, pressure, power loss and more.
- Expandable to 192 digital/analog I/O

Durable and Easy to Maintain

- Multiple Nema4 enclosure options – PC, Stainless Steel and Carbon Steel
- 10 minute field replaceability makes maintenance a breeze

Flexible Power Options

- 50W solar kit – 7-day autonomy with 1 minute update rate
- 144W SmartUPS power kit – 110VAC power, minimum 8 hours backup on power loss

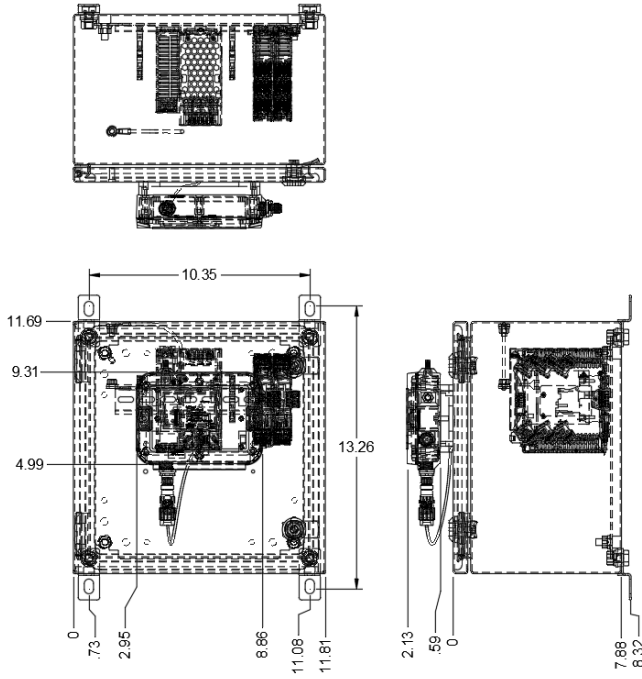
Wastewater	Monitoring for lift stations (up to 6 pumps), clarifiers, chemical feed, headworks, generators, power quality, weir flow monitoring, and just about any other application in a wastewater system.
Water	Monitoring for pump stations, wells, towers, tanks, master meters, leak detection, high service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



m.Smart™

Classic Gateway Automation Kit

Mechanical



Ordering Information

Part Number	Description
MAK-SC-GW-U-1-S-050-P-1212-000	m.Smart™ MAK gateway, 50 watt solar kit, 1 universal I/O module, poly carb 12x12" enclosure
MAK-SC-GW-U-1-S-050-S-1111-000	m.Smart™ MAK gateway, 50 watt solar kit, 1 universal I/O module, stainless steel 11x11" enclosure
MAK-SC-GW-U-1-S-050-C-1111-000	m.Smart™ MAK gateway, 50 watt solar kit, 1 universal I/O module, carbon steel 11x11" enclosure
MAK-SC-GW-U-1-S-100-P-1614-000	m.Smart™ MAK gateway, 100 watt solar kit, 1 universal I/O module, poly carb 16x14" enclosure
MAK-SC-GW-U-1-S-100-S-1513-000	m.Smart™ MAK gateway, 100 watt solar kit, 1 universal I/O module, stainless steel 15x13" enclosure
MAK-SC-GW-U-1-S-100-C-1513-000	m.Smart™ MAK gateway, 100 watt solar kit, 1 universal I/O module, carbon steel 15x13" enclosure
MAK-SC-GW-U-1-B-006-P-1614-000	m.Smart™ MAK gateway, 144 watt SmartUPS, 1 universal I/O module, poly carb 16x14" enclosure
MAK-SC-GW-U-1-B-006-S-1513-000	m.Smart™ MAK gateway, 144 watt SmartUPS, 1 universal I/O module, stainless steel 15x13" enclosure
MAK-SC-GW-U-1-B-006-C-1513-000	m.Smart™ MAK gateway, 144 watt SmartUPS, 1 universal I/O module, carbon steel 15x13" enclosure
MAK-SC-GW-U-1-B-015-P-1614-000	m.Smart™ MAK gateway, 360 watt SmartUPS, 1 universal I/O module, poly carb 16x14" enclosure
MAK-SC-GW-U-1-B-015-S-1513-000	m.Smart™ MAK gateway, 360 watt SmartUPS, 1 universal I/O module, stainless steel 15x13" enclosure
MAK-SC-GW-U-1-B-015-C-1513-000	m.Smart™ MAK gateway, 360 watt SmartUPS, 1 universal I/O module, carbon steel 15x13" enclosure



425 N. Meridian Avenue
Oklahoma City, OK 73107

1-844-365-8647 ■ www.d6labs.com ■ sales@d6labs.com