



SAYA SMART WATER MANAGEMENT KIT

PRODUCT OVERVIEW

Saya's Technology SAVES MONEY PROTECTS PROPERTY, and FOSTERS PEACE OF MIND by providing real time control of water systems, to MONITOR FLOW and PREVENT DAMAGE CAUSED BY LEAKS.



- Smart Ultrasonic flow meter with remote Shut-off
- Smart Gateway
- Options: Pressure sensor, Temperature sensor, Flood Sensor, Smoke Sensor
- Manual

FEATURES

The SAYA system comes packaged with water detecting flood sensors, a smart ultrasonic flow meter with remote shut-off valve and a wireless gateway that can send analytics data to a mobile device or a dashboard.

The key features are

- Smart water Management and Consumption tracking
- Scan for anomalies, pinpoint leaks and failures, send instant actionable alerts and shutoff the main line.
- Temperature sensor for freeze protection
- Detailed daily, weekly, monthly and yearly consumption reports
- Pressure sensor to detect pipe burst or sudden loss of pressure due to leak.
- Analytics and Risk management

TECHNICAL SPECIFICATIONS

SAYA SMART GATEWAY

PARAMETER	UNIT
Rated Voltage	24 V
Communication (Upstream)	Ethernet, Cellular, 802.11abgn
Communication (Downstream)	Mbus, LoRa, BLE
Nodes supported (Mbus)	4
Nodes Supported (LoRa)	60
Water & Dust Proof	IP67
Ambient Humidity	5-95%
Ambient Temperature	-4°F-140°F



SAYA FLOOD SENSOR

PARAMETER	UNIT
Rated Voltage	3 V
Communication (Upstream)	BLE, LoRa(915MHz)
Water & Dust Proof	IP67
Ambient Humidity	5-95%
Ambient Temperature	-4°F-140°F
Battery	Lithium



SAYA SMART METER



PARAMETER	UNIT	VALUE		
Pipe Diameter	mm(Inch)	15(1/2")	20(3/4")	25(1")
Start Flow Rate	m ³ /h(gal/m)	0.002(0.008)	0.002(0.008)	0.005(0.022)
Qmin(Q1)	m ³ /h(gal/m)	0.01(0.044)	0.01(0.044)	0.016(0.07)
Qtransitional(Q2)	m ³ /h(gal/m)	0.016(0.070)	0.016(0.07)	0.025(0.110)
Qmax/permanent(Q3)	m ³ /h(gal/m)	2.5(11.007)	2.5(11.007)	4(17.611)
Qoverload(Q4)		3.125	3.125	5
Range ratio=Q3/Q1		250	250	250
Metrology accuracy		2class	2class	2class
Q1-Q2 error		<3%	<3%	<3%
Max Working Pressure	MPa(PSI)	1.6Mp(232.06)	1.6Mp(232.06)	1.6Mp(232.06)
Pressure Loss	KPa(PSI)	<25(3.625)	<25(3.625)	<25(3.625)
Temperature	°C (°F)	4°C-65°C (39.2°F-149°F)	4°C-65°C (39.2°F-149°F)	4°C-65°C (39.2°F-149°F)
humidity range	%RH	<95	<95	<95
Maximum registration(LCD)	m ³	99999.99	99999.99	99999.99
Min instant-flow reading(LCD)	m ³ /h(gal/m)	0.001(0.004)	0.001(0.004)	0.001(0.004)
Max instant-flow reading(LCD)	m ³ /h(gal/m)	9.999(44.024)	9.999(44.024)	9.999(44.024)
Battery Type		Lithium		
Battery Life	Year	>10		
Communication (Type 1)		M-bus		
Communication (Type 2)		LoRa (915 MHz)		
Temperature Compensation		Yes		
Pipe Certification		NSF 61/372		
Pipe Type		Brass		
Flow Sensing		Ultrasonic		
Water & Dust Proof		IP-68		