Sprint Kit

Just 1 minute! Assembled, deployed, tracking flow, and pushing Pulse data in just a 1 minute sprint.
The Sprint is a rapidly deployed Water and Gas flow tracking kit with on-board Pulse K-factor setting.
A no laptop, no configuration, no brainer.
Just Snap and Go.

Real time Water and Gas Data without disruption to metering, plumbing, tenants, facility folks, or your project.

VV-103

Applications

- Indoor or Outdoor Gas or Water Meters
- Whole building applications
- Projects requiring hi-res or hi-frequency data
- Disruption-restricted locations
- Approved for secure / government locations
- Digitizing old and new meters without replacement
- Baseline studies
- ESG, LEED and other efficiency reporting
- Cost and usage tracking
- Leak and anomaly detection
- Building security and oversight
- Research and development
- Continuous and Ongoing Commissioning

Features

- A no laptop, no configuration installation
- Pulse setting using on-board toggle
- Non-invasive, disruption-free deployment
- No plumber or utility involvement
- Burial-safe, water-proof probe
- Auto calibrate / Auto track / Auto re-calibrate
- Low profile / inconspicuous probe
- Compatible with all meter sizes
- Compatible with >95% of installed utility meters
- High data Granularity and Resolution
- Subscription Free

Building owners and facility managers need building Water and Gas usage data to track costs, detect anomalies and leaks, oversee operations, to improve efficiency, for boiler upgrades or CHP baseline studies, and as required by LEED and regional regulations.

Plumbed utilities, Water and Natural Gas are not like other tracked variables.

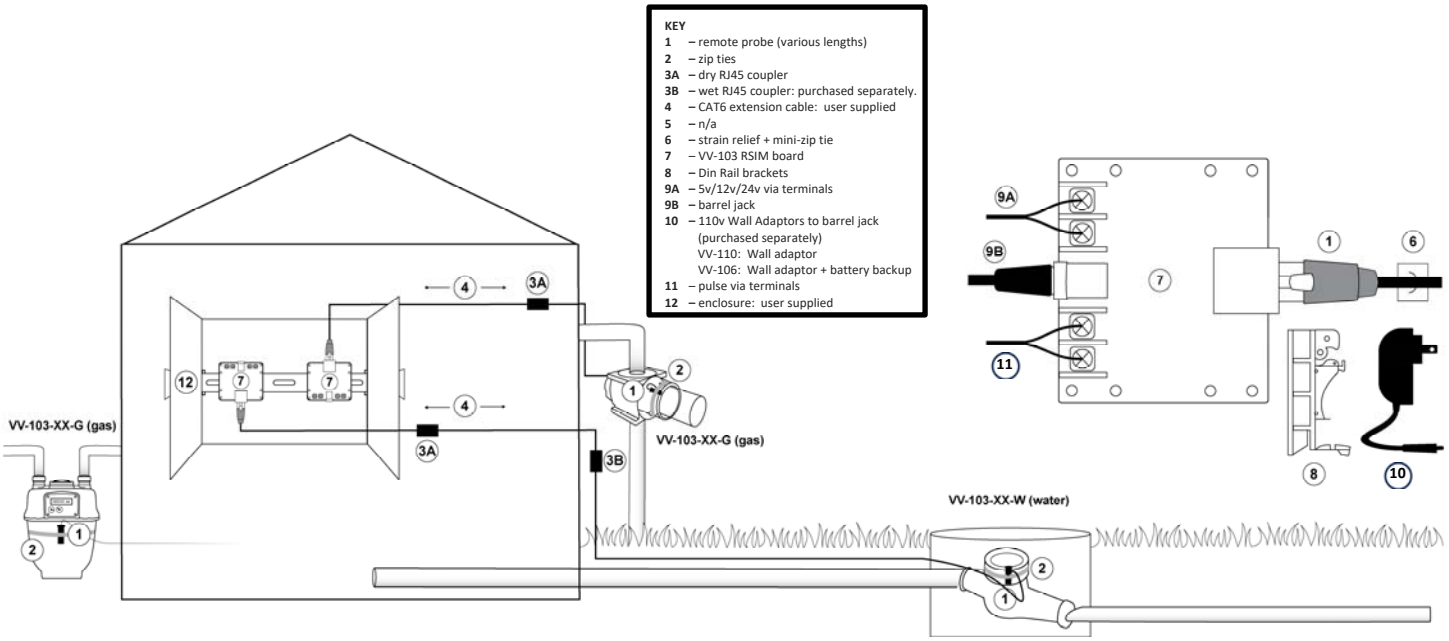
Until now usage tracking cost thousands in plumbers and disruption to building operations, off-hour installation, and weeks or months delay.

This is disruptive to project flow, requires property managers to participate in project coordination of multiple site visits, is expensive, and results in low-quality, "dirty" data. **A movie we have all seen before.**

Vata Verks leverages the meters that already exist in the building, eliminating hardware, and specialized and off-hour installation.
The sensor simply straps to the side of the Water or Natural Gas meter and resolves hi-resolution, real-time flow information.

No special installation skills or hardware.
No disruption to project flow or building operation.
No 3rd party involvement or coordination.

Integrates with BMS and building monitoring systems.



Meter Compatibility

Water Optimized Models

Virtually all* positive displacement, compound, multi + single-jet, piston utility meters

Gas Optimized Models

Virtually all diaphragm, rotary, and turbine utility meters

Compatible with over 95% of installed utility meters

Not compatible with solid state meters such as ultra-sonic meters

**For Sensus Omni water meters, see models VV-210, 230.*

Pulse Communication

- **Pulse Features**
  - Pulse K-factor set by Toggle Switch. 1 or 10 rev.
  - Pulse Width: 10 – 100 msec (50 msec default)
  - Pulses over Max rate are accrued until flow slows
  - To change Pulse Settings: Accessory VV-301

- **Pulse Specification**
  - Solid state relay: AC or DC. No polarity.
  - Max Voltage: 24Volts DC and 17V RMS AC
  - Max Current: 1ADC and 0.5A AC RMS
  - Isolation voltage is 1kV RMS
  - Device is a CPC 1020N

Typical Data Accuracy*

- Water: > 99%
- Natural Gas: > 97%

*Maximum accuracy when k-factor field measured

Data Ownership

- Owned and directly controlled by the user
- Suitable for government or secure locations

Included Components / Limits

Full Kit

- -20C to 40C
- Not for hazardous locations

- Sensor Probe
  - Indoor / Outdoor: water, burial, submersible safe
  - 2M, 7M or 15M long direct burial CAT6 AWG 23, RJ45 terminated, Pin out T568B
    User extendable to 60M / 200 ft Max
    Note: 23M / 75 ft Max when 5v powered
  - (1) indoor RJ45 Coupler
- 103 RSIM Board (65mm x 56mm)
  - Dry Location: Typically, probe is extended so board mounts in communication enclosure.
  - Din Rail brackets
  - Clearance holes for Raspberry Pi integration
- Zip ties (2) for meter strapping
- Adhesive strain relief + mini-zip tie

Power

- Consumption: Less than 45mA Max
- Standard Power
  - 5v
  - 12v
  - 24v
- Optional Power
  - 110v Accessory AC-110
  - 110v + Battery backup Accessory AC-106

Certifications

Supplier's Declaration of Conformity
47 CFR § 2.1077 Compliance

Product: VV-103
Responsible Party
Vata Verks Inc
28 School St. Arlington, MA 02476
info@vataverks.com

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Sensors are used to acquire Water / Gas utility meter flow data. Vata Verks assumes no liability for their use beyond cost of repair or replacement within warranty period. See Warranty for full details.

VataVerks reserves the right to alter product offerings and specifications at any time without notice and is not responsible for errors that may appear in this document.