



## TURN YOUR HYDRANT INTO A SMART HYDRANT

Prodigy SmartCap™ is a non-invasive, pipe monitoring device that will turn any hydrant into a smart hydrant. Using patented sensors and wireless IoT connectivity to provide predictive assessments of pipe deterioration and the Prodigy SmartCap provides real-time infrastructure management in the matter of minutes. Designed to fit on any style of fire hydrant, the Prodigy SmartCap monitors your infrastructure for leaks, flow events, changes in temperature, and tamper incidents - prior to the onset of these critical events. Installation can be completed within minutes without disruption or system shutdown.

Prodigy SmartCap monitors, processes, and records multiple channels of data from a variety of sensors and stores the processed data in memory, ready for upload to the cloud via CAT M1 cellular connectivity. Reports and data files are transmitted daily unless events occur, in which case Prodigy SmartCap will transmit real-time data to ensure alerts and notifications are received as they occur.

- Suitable for all standard hydrants
- Installed in less than five minutes
- CAT M1 cellular connectivity
- Suitable for monitoring distribution pipes (12" or less) from hydrants
- Above ground – eliminating signal concerns
- Suitable for both wet and dry barrel hydrants
- Three-year warranty
- Replaces existing pumper nozzle
- On-site battery replacement

FEATURES	
Condition assessment	✓
Leak detection	✓
Flow events	✓
Vibration and seismic activity	✓
Tamper alerts	✓
Live wireless cellular connectivity	✓
Temperature	✓
On-site replaceable batteries	✓

## OPERATIONAL REQUIREMENTS

Operating mode	Fully wireless – LTE CAT M1 connectivity
Application	Water distribution systems
Pipe materials	Copper, CIP, SIP, DIP, Steel, PSC, Concrete, AC, Plastic, GRP, All
Measuring/Monitoring capability	Live and daily alerts
Attachment means	Screw-on hydrant cap
Pipe diameters	1.5" to 12" diameters
Power requirements	Self-powered
Installation environment	IP67
Cellular coverage	Any – North America

## SPECIFICATIONS

Compatibility	Standard 4 1/2" NH(NST) Hydrant cap — Other versions available upon request
Dimensions	6 5/8" diameter x 6" height (outside measurements)
Weight	11.15 lbs.
Enclosure material	Cast iron (red, yellow or grey)
Power	3.6v Lithium primary battery
Battery life	Up to 3 years operating in normal conditions
Operating temperature	-55 to 85°C (-67 to 185°F)
Communications Modem	Carrier certified LTE CAT M1 modem
Processor	Twin processors (8-bit microcontroller and 32-bit microcontroller)
ADC	Twin 16-bit multichannel ADC and 24-bit multichannel ADC
Non-volatile memory	128Mbytes
Acoustic sensors	Multiple ceramic transducers
Accelerometer	3 Axis low consumption board mount accelerometer
Pipe Condition sensor	Upon request
Flow alert	Upon request
Upload and alert capability	Real-time alerts – with once per day system check-in as standard and corresponding raw data upload
Sample rate	Feature specific sampling rates ranging from 300 samples/sec to 6000 samples/sec
Product warranty	3 years standard – terms apply
Data and Web Portal	Subscription based (3 yrs Included)