Lid-Link™ and Power-Lid™ Flush Mount Antennas

Lid-Link:

- Lid Link is a traffic rated (HS-20), flush inspection cover with an integral RF antenna. The Power-Lid option adds a solar panel array to provide a trickle charge input for battery maintenance.
- Lid-Link is intended for use with remote telemetry systems where a real time connection to data is needed, but physical access to the remote asset is impossible, or impractical, due to vehicle traffic, vandalism, or availability of power.
- Lid-Link and Power-Lid provide seamless access to remote assets via CDMA, Spread Spectrum, and proprietary low power data network applications.
- ADA's or SCADA equipment may be housed in our sub grade submersible enclosure system, or in large diameter, non submersible applications, in a standard NEMA4X enclosure.

Link-Link™, showing non-skid coating and cut away inspection frame, Lid-Link Antenna, long life battery, and cut away logger enclosure. (IPI Application)

Installation:

Lid-Link, and Power-Lid are available and designed to work with common, standard inspection frames and manhole covers. The systems are intended be installed in new applications, or to replace existing manholes, or inspection covers as a retrofit application.

Inspection frame installed flush with grade.

Low Maintenance:

The system can be left in place in all types of weather for permanent installations. The elements are sealed from the weather, and designed for a minimum of 20 years life. When Power-Lid is used with rechargeable battery Pack, normal battery maintenance will be required.

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We make it easy to get the data you need.

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Applications:

Use the Lid-Link or Power–Lid to provide a communications link and power to SCADA systems, ADA's, or other radio enable data communications device. Typical applications include:

- In-place inclinometers systems (IPI's)
- Wireless MPBX's.
- Water Level readings
- Railroads
- Load cells
- Peizometers
- Almost any commercially available sensor, or serial device
- Landslides Applications
- Marine/Port Applications
- Areas with low security/ vandalism

Specifications:
Light Duty: Light duty castings are able to withstand some vehicular loading, but are not designed to accept roadway traffic. Items can accept loading from 2,500 — 16,000 pounds. These products may be subject to occasional traffic from process maintenance, garbage pick-up, mowers, etc.

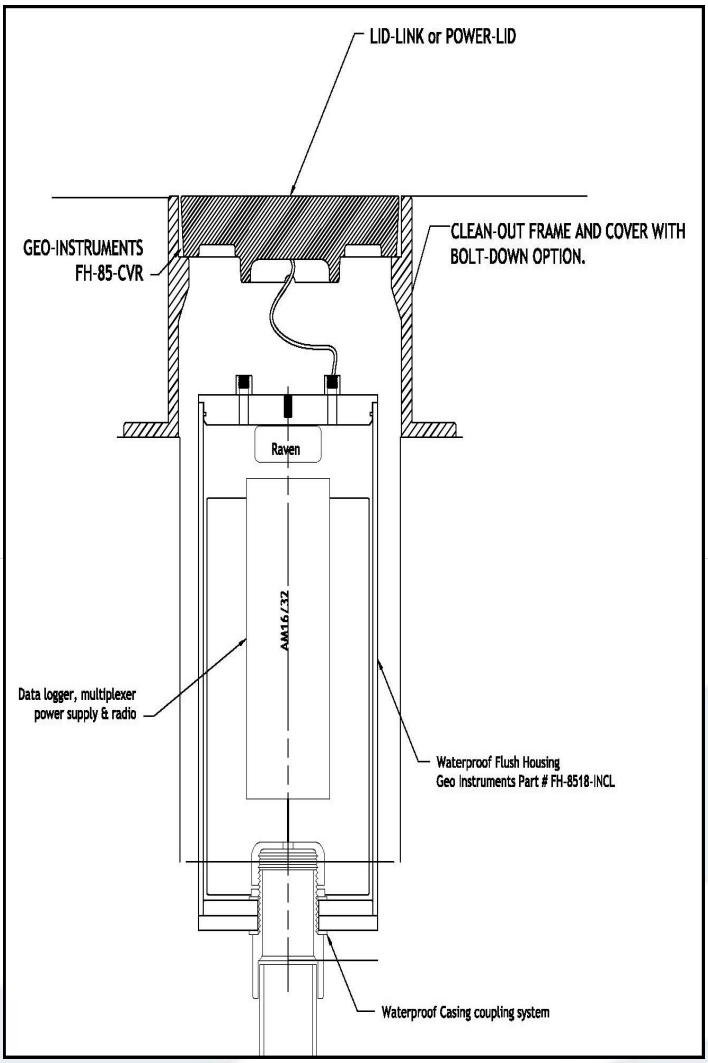
Heavy Duty: Heavy duty castings bear a minimum of 40,000 pounds on a 9" X 9" area. This represents a 2.5 safety factor over the 16,000 pound requirement of H20 and HS20. This load designation is appropriate for general traffic applications. Loading criteria is 40,000 — 100,000 pounds.

RF Bands Supported:
- 433 Mhz,
- 860-940 Mhz
- 2.3-2.6 Ghz

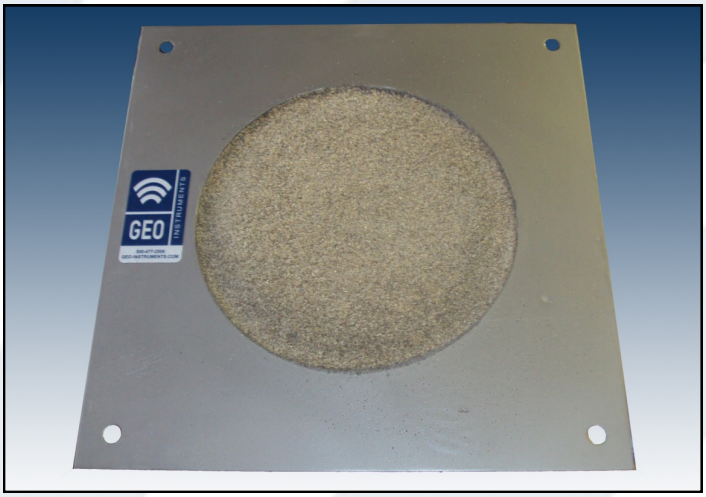
Power Output:
- Power Lid models include a modular solar array, in addition to the radio antenna. Peak output (min) is 4 to 25 watts.
- Additional solar modules may be added (to larger manholes covers, in increments of 5, and 10 watts).

Dimensions/Material:
- 9" nominal to 36" round Ductile Iron
- Custom Sizes available

	Antennae Face	Antennae Depth	Metal Casing Face
Heavy Duty LidLink	10" OD	3"	12" OD
Railroad RailLink	9" x 9"	2"	20" x 12"
Light duty LidLink	8" OD	2"	12" x 12"



Above: Typical Subsurface Wireless IPI installation with LidLink.



Above: Light Duty LidLink.

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