A Guide to Levelogger Deployment & Communication

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Deployment Options

Wireline/Kevlar Cord Deployment

Use this method when you wish to minimize up front costs, and pre-program Leveloggers in the office. Lower into the well, suspended on wireline or Kevlar cord from a Solinst 2" (4" with reducer) Lockable Well Cap.

The Solinst Lockable 2" Well Cap when used with a stainless steel wireline and hook, or a Kevlar Cord.

Stainless Steel Wireline Cable Spool and Hook.

Spool of Kevlar Cord.

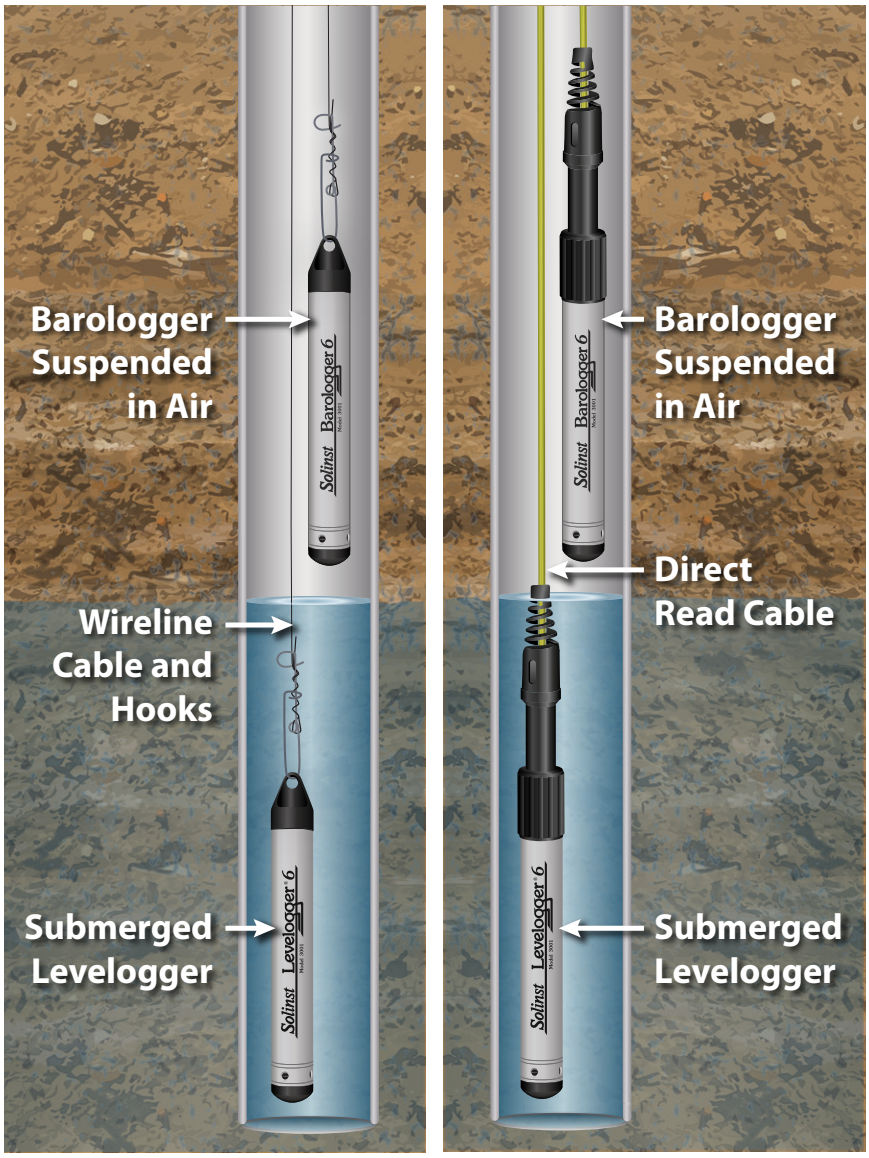
Direct Read Cable Deployment

Use this method when you want direct communication with your Levelogger while it is deployed, and to view real-time readings. Deploy with Direct Read Cables using a Solinst 2" (4" with reducer) Lockable Well Cap. (An L5–Edge DRC Adaptor is available to work with older style Direct Read Cables.)

The Solinst 2" Lockable Well Cap has openings for two Direct Read Cables and an opening for other monitoring equipment, such as a Water Level Meter.

Direct Read Cables are available in lengths up to 1500 ft.

A Support Hanger Bracket provides an option for supporting and organizing down well wires or cords, or for coiling extra Direct Read Cable if the full length is not required.



Monitoring Artesian Conditions

Solinst offers an assembly for monitoring artesian wells. It provides options for in-well, and top of well installation, and can accommodate the use of Direct Read Cables.

Levelogger Artesian Well Fitting

® Kevlar is a registered trademark of DuPont Corp.

Communication Options

Communicating with Solinst Levelogger PC Software

Standard (Wireline/Kevlar Cord) **Communication**

To retrieve data or re-program, remove the Levelogger from the well and use a **Field Reader** or **Desktop Reader** attached to a portable or office computer.

Direct Read Communication

Pre-program Leveloggers in the office using a Field Reader or Desktop Reader. In the field, use a laptop and **PC Interface Cable** connected to the Direct Read Cable to program, view or download data.

In-field Communication

A Levelogger App Interface connected to a Direct Read Cable provides a wireless *Bluetooth*® connection between the Levelogger and the Solinst Levelogger App on your iOS or Android™ smart device, for programming or downloading data.

A Solinst Readout Unit (SRU) connected to a Direct Read Cable displays instant water level readings, real-time logging, Levelogger status, and allows saving and downloading data to the SRU.

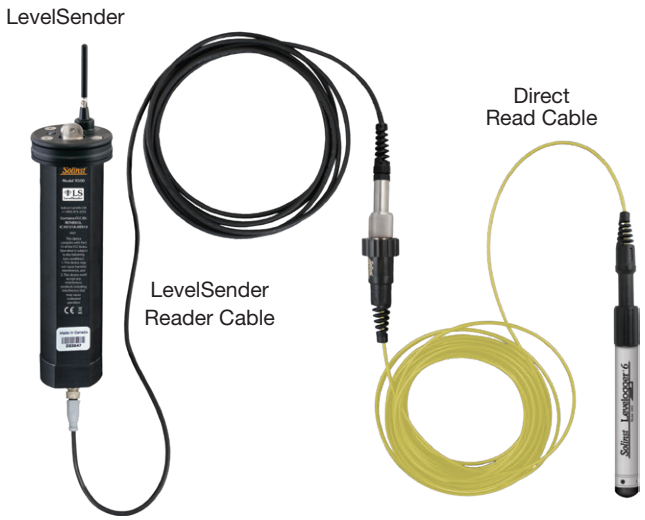
A DataGrabber connected to a Direct Read Cable allows Levelogger data to be copied to a USB flash drive.

A Threaded or Slip Fit Adaptor allows direct connection of a Levelogger to a Levelogger App Interface, SRU or DataGrabber for programming or downloading data in the field. This is useful for Leveloggers not deployed using a Direct Read Cable.

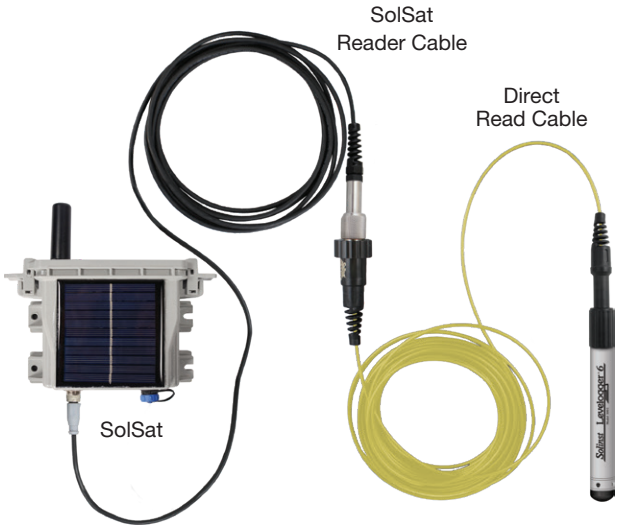
Remote Monitoring Options

Solinst Telemetry Systems

Solinst has options for wireless remote communication using cellular or satellite telemetry. Real-time data is sent from field-located Leveloggers to your office PC or smart device.

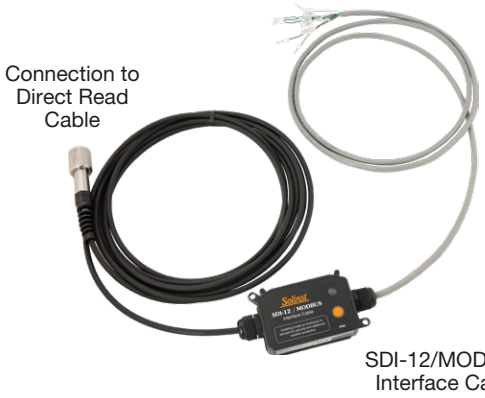


The LevelSender *uses 4G cellular communication to send Levelogger data to the Solinst Cloud or via FTP (email and SMS are also options) Fits in a 2" well.*



SolSat Satellite Telemetry *uses Iridium satellite communication to send Levelogger data to a secure web portal or for download in the SolSat Wi-Fi App.*

RRL Remote Radio Link *uses free, short-distance radio communication to send remote water level data from Leveloggers to a Home Station PC.*



Solinst Leveloggers are able to communicate with third-party dataloggers using SDI-12 or MODBUS protocols, by connecting a Levelogger's Direct Read Cable to a Solinst ***SDI-12/MODBUS Interface Cable****.*

NOTES:

For Information on deploying the Rainlogger 6, see our *Rainlogger 6 Setup* document.

For information on deploying your Leveloggers in surface water applications, see our *Long-term Open Channel and Surface Water Monitoring with Leveloggers* technical bulletin.

Always ensure proper maintenance and care of your Levelogger, see our *Ensuring Proper Use and Maintenance of Leveloggers* technical bulletin.