Why Use Telemetry Systems?

Telemetry systems offer cost savings, flexibility and easy access to remote monitoring locations.

Advantages

- Long term cost savings
- Time saved by eliminating manual data collection
- No need for regular travel to remote field locations
- Self-management gives additional savings and data security
- Simple software and easy integration into network

Applications

- Remote water level monitoring
- Long-term drought monitoring
- Management of water taking
- Golf course and mine water management
- Flood and storm water management
- Long-term aquifer management
- Monitoring contaminant plume advancement

LevelSender 5

- 4G cellular communication
- Option to use Solinst Cloud for setup and data storage
- Or, data sent by FTP transfer; email or SMS also options
- Compact design fits inside 2" well
- Set alarm notifications
- Built-in barometer
- Hassle-free Solinst SIM Card option

SolSat 5 Satellite Telemetry

- Iridium satellite modem
- Global network connectivity
- Convenient setup with Wi-Fi App
- Secure web portal for data
- Weatherproof, compact enclosure
- Set alarm notifications
- Built-in barometer and solar panel

Get Quote

STS Telemetry System

- LTE digital cellular
- Small to large networks
- Control your own telemetry systems over the web
- Set alarm notifications
- Hassle-free Solinst SIM Card option

RRL

- Short-distance radio
- Small closed loop networks
- Interchangeable stations (ideal for re-configuring your network)
- Compact enclosure

Built For Solinst Dataloggers

Solinst Telemetry Systems are dedicated for use with Solinst dataloggers. This provides the advantage of combining a user-friendly telemetry system with high quality dataloggers.

Solinst dataloggers are ideal for remote monitoring, with independent user-defined logging schedules as a back-up. They have long battery life, power surge protection and a non-volatile memory. If programmed separately, dataloggers record regardless of the status of the Telemetry System.

Solinst dataloggers are low maintenance. These reliable, durable dataloggers have intuitive software with many useful features, such as self-tests and firmware upgrade and diagnostic utilities.

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Specifications	Cellular (4G LTE-M)	Cellular (4G LTE Digital)	Satellite
Why Use?	• fits in a 2" (50 mm) well • built-in barometer • cellular coverage available • topography not suitable for radio • alarm notifications	• cellular coverage available • topography not suitable for radio • alarm notifications	• large, remote area to cover • topography not suitable for radio • cellular coverage not available • built-in barometer and solar panel • alarm notifications
System Differences	• built-in barometer • monthly carrier and optionally low cost Solinst Cloud fees • data sent to Solinst Cloud or via FTP file transfer; email/SMS also options	• monthly carrier fees • data sent over the Internet	• built-in barometer and solar panel • monthly/annual global texting fees • data sent via satellite transmission
Suggested Applications	• flood and stormwater management • watershed management • drought monitoring • early warning plume detection	• flood and stormwater management • watershed management • drought monitoring • early warning plume detection	• flood and stormwater management • watershed management • drought monitoring • early warning plume detection
Remote Station Support	• cellular radio module • dynamic IP address • email address optional	• IP enabled modem • dynamic IP address • 115200 bits/sec	• Iridium Satellite modem • built-in Wi-Fi App for remote communication
Home Station Support	• email address & LevelSender PC Software or Solinst Cloud • no extra hardware	• static IP address • STS/RRL PC Software • no extra hardware	• Wi-Fi App in mobile device browser • Secure Web Portal for data • no extra hardware
Datalogger Support	Connect one datalogger, or two using a splitter	Connect up to four dataloggers	Connect one datalogger
Data Transmission	• sent to Solinst Cloud, or • sent as text or .csv files to FTP server • sent as text to multiple email and an SMS recipient • data from each email/SMS saved as .xle file on the Home Station computer (exported using LevelSender Software) • saved in a database on the Home Station computer (.sqlite file). Database is appended as new data is received	• saved in a database on the Home Station computer (.mbd file). Database is appended as new data is received • data can be exported using STS/RRL Software as .lev, .csv or .xle files • barometric compensation can be done using STS/RRL Software	• sent via TextAnywhere (SMS) • saved in a database on a secure web portal. Data is appended as new data is received; can be viewed in a list or graph • data can be exported as .csv or .xle files • logged data can be downloaded from a SolSat 5 using the Wi-Fi App
Antenna	Cellular SME Male Monopole 2dBi	2 x 700/850 MHz BLADE SMA Male	High-performance helical
Typical Coverage	Based on cellular network	Based on cellular network	Global connectivity
Optional Antenna	LTE Omni Wall/Pole Mount 790–960MHz, 1710–2690MHz and 3400–3800MHz	Quad Band, Omni Directional	n/a
Power	3 AA lithium batteries	12V 12-30 AHr deep-cycle, rechargeable sealed lead-acid battery recommended (not included)	2 x 3.4 Ah LiPo rechargeable batteries, 2 Watt built-in solar panel
External Power and Charge Accessories	None	• Solar power connection package (for user supplied solar panel) • AC power/battery charger assembly	• 2-pin Bulgin connection for battery recharging via USB cable, or for additional solar panel
Solinst SIM Option	✓	✓	n/a
No Data Hosting Fees	✓ Optional – Low Cost Solinst Cloud	✓	✓ (included in data plan)
Remote Diagnostic Reporting	✓	✓	✓