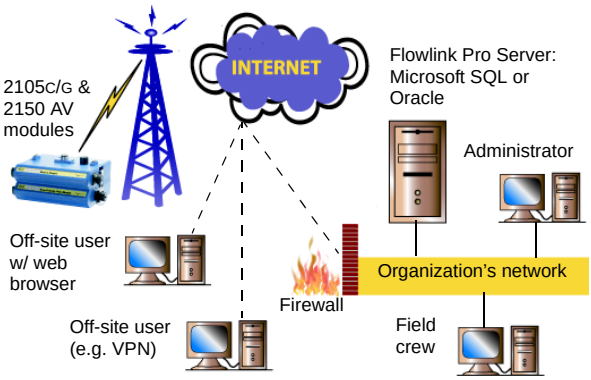
Model 674 Rain Gauge

- Metric or English units
- 3-Point leveling & integral bubble level for easy alignment
- Spring-loaded sapphire jewel bearings resist damage
- All openings screen-protected
- Direct connection to Isco flow meters and samplers

The rain gauge should be installed where its top has unobstructed access to rainfall.

For the many customers who already use Flowlink Pro, remote sampler communication and water quality data retrieval can easily be integrated into an established monitoring system.

Figure 3: Basic configuration of Flowlink Pro server/client network



Sampler — The automatic sampler can be programmed days or even weeks ahead of a defined event such as a specific pH level, rainfall accumulation, or flow volume, that triggers a primary or secondary sampling protocol via the attached parameter sonde or remotely from the 2105C/G module.

6700 Series samplers can be programmed to take "first flush" samples at the start of a storm event. The same sampler can then place subsequent flow-weighted or parameter-based samples in a second group of bottles.

Measurement — Water quality parameters such as pH, DO, conductivity, temperature, turbidity, salinity, etc. can be measured by the sonde attached to the sampler controller. This data is transmitted using ASCII protocol from the sampler to the 2105C/G via the serial cable. The 2150 flow module with area velocity sensor measures flow using continuous wave Doppler technology. The 674 rain gauge uses a tipping bucket design for precision rainfall measurement, and transmits this data to the 2105C/G.

Note

The 2105C/G is also capable of being directly connected to the sonde, with data storage for each parameter configured in Flowlink.

Pushed Data — The 2105C/G module collects the data from all measurement devices in the system, and automatically sends data to a designated server runing Flowlink Pro software, using 1xRTT or GPRS packet-switched data transmission at user-specified intervals. A Microsoft® SQL, SQL Server Express, or Oracle® database is required for this function.

Reports and Commands — Remote commands are sent to the sampler via a pass-through function of the 2105C/G and serial cable, using the standard remote commands that are provided in your sampler operation guide. Sampling reports, including I/O status, can be retrieved from the sampler in the same manner.

Using a terminal emulator program such as HyperTerminal, call the 2105C/G module, then establish RS-232 serial communication with the sampler controller. Once you have remotely connected to the sampler, it is ready to receive remote commands. Detailed steps for HyperTerminal connection, as well as remote commands, can be found in the *Remote Operation* section of your sampler operation guide.

System Considerations

Text messaging and pushed data capabilities are available in any location with standard cellular services.

Pass-through remote sampler communication via the 2105C/G requires Circuit-Switched Data (CSD) service. Check with your local service provider for availability.

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