

API-Cecom Group n'fo

Technical & Application Note A175

Application: Monitoring water level in a tank
Type Of company: Public Utility
Location: Canada

Problem: The customer is a small local utility company that is using a cable suspended loop powered level transmitter to monitor the water level in a water tower (tank) installed in a remote location. The level transmitter signal must be sent to a operator monitored digital display in the control house which is 3½ miles away.

Solution: The customer used an API 7500 G to convert the 4-20 mA signal to a frequency and transmit it over “old” installed phone wires to the remote control house. An API 7580 G was used in the control house to convert the digital frequency signal back to a 4-20 mA signal. The signal is then displayed on a digital display to indicate the height of the water in the water tower. The operator was able to “remote control” the water tower pumps..



API 7500 G

DC to Frequency Transmitter

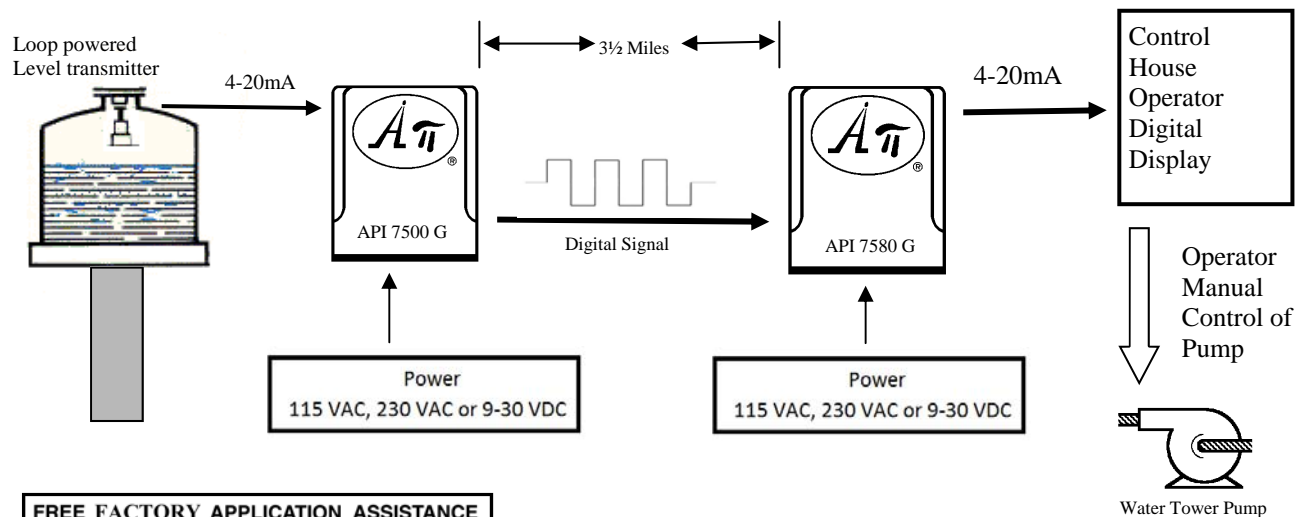


API 7580 G

Frequency to DC Transmitter



Water Tower



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