ADQ-1000 Data Acquistion Server

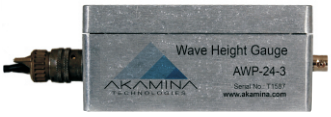
With Digital CAN bus and Analogue Inputs

The Akamina ADQ-1000 Data Acquisition Server is designed as a central hub for all your data acquisition requirements. It is ideally suited for hydraulic and physical modelling laboratories in research, industrial or educational facilities. Its high sampling rate and high channel count combined with aggressive pricing make it an ideal choice for small and large-scale facilities alike. The client-server architecture frees laboratory PCs from having to meet strict real-time requirements by implementing the real-time tasks on the ADQ-1000 server.

Available with 16 or 32 differential analogue input channels, the ADQ-1000 allows data acquisition from Akamina's industry leading AWP-24 and AWP-300 Series wave height gauges or any other analogue sensor with a high-level analogue output. The AWP-24 interface panel provides easy connectivity of signal and power to the AWP-24 Series wave height gauges thereby eliminating the need for an external power supply and simplifying cabling.

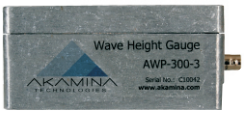
The ADQ-1000 also includes two CAN Bus interfaces each of which can provide power to and collect data from up to 30 AWP-300 Series digital wave height gauges. The daisy-chain configuration of the CAN Bus significantly reduces cabling complexity and cost compared with conventional analogue sensors where all of the cables must be run back to a central data acquisition system. CAN Bus wave height gauges also support remote monitoring and set up. The CAN Bus interface eliminates many issues common in analogue data acquisition systems, such as noise and grounding over long cables.

The network-enabled ADQ-1000 server and accompanying WaveGen-Studio client software provide command, control, acquisition and analysis from a designated PC with network access. The combination of hardware and client software create an easy to use and highly reliable data acquisition system.



AWP-24

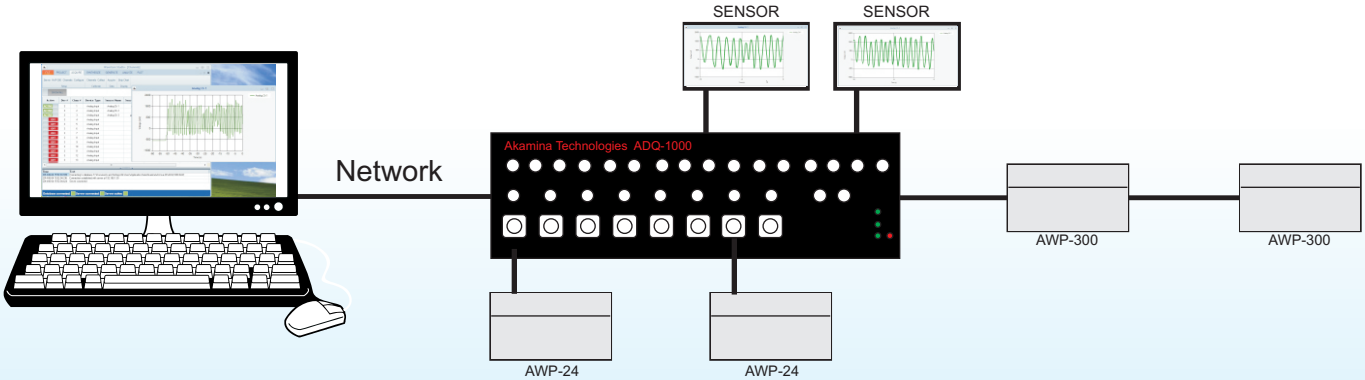
ADQ-1000



AWP-300

Product Features

- 16 or 32 differential analogue input channels, +/-10V maximum input voltage range. (16 channel option shown)
- 2 CAN Bus interfaces for data acquisition from AWP-300 digital wave height gauges. Each interface supports up to 30 gauges connected in a daisy chain.
- Maximum data sampling of 1000 samples/second per channel.
- 16-bit resolution high-speed ADC.
- Windows-based client software for managing data acquisition tasks, data analysis, calibration and convenient export to csv file format.
- Client software can be run from any Windows PC



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