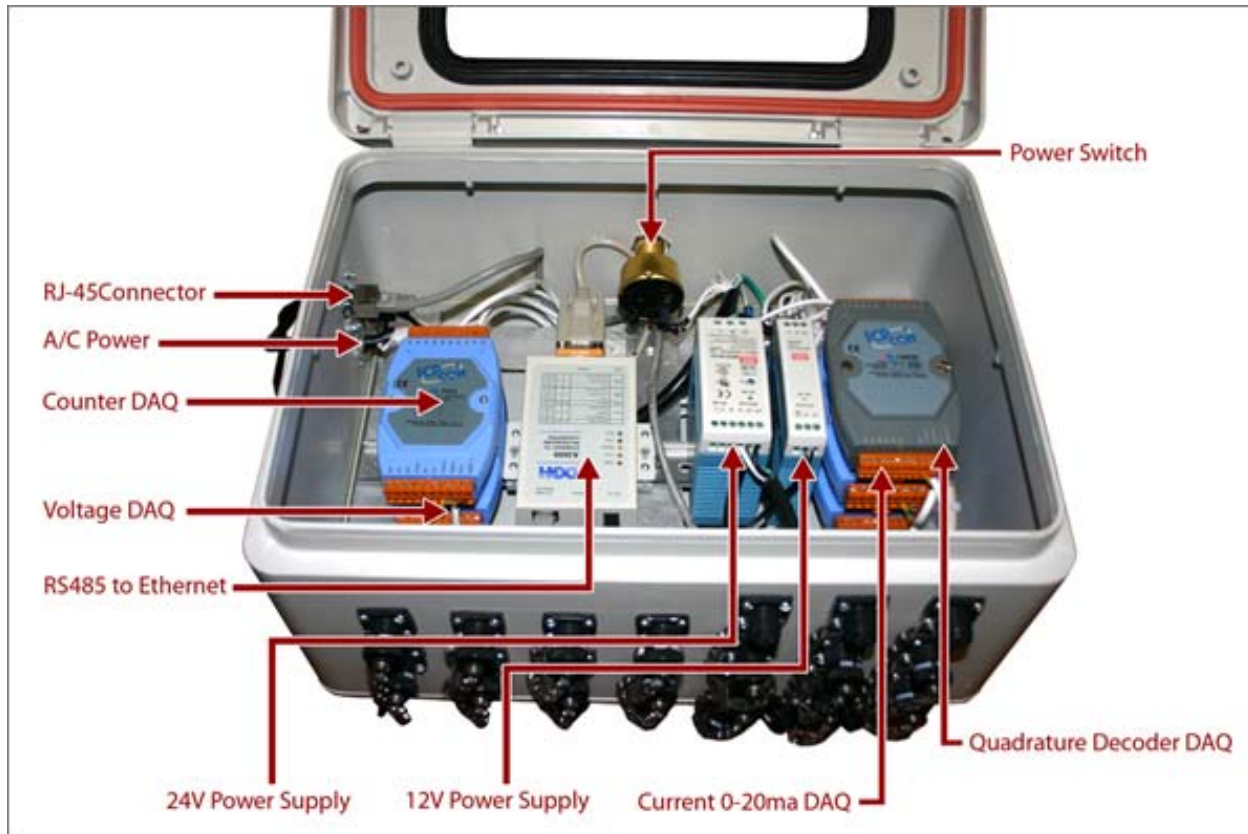




High quality data acquisition and embedded control products.

## Drilling Rig Data Acquisition System



[PetroDAQ](#) builds units for the capture of all data generated at drilling rigs. They can connect directly to the rig sensors, to the digital output generated by all contractors at the rig, and transmit the data to an aggregation server in the central office. [PetroDAQ's](#) system uses ICP DAS [RS-485 based I/O modules](#) for Data Acquisition.

Standard [PetroDAQ](#) units have 16 analog input channels:

- [I-7017RC](#): 9 x Current Loop @ 4-20ma
- [I-7017R](#): 2 x Voltage @ 0-20V
- [I-7083B](#): 4 x Counters
- 1 x Quadrature decoder for Drawworks block position

[PetroDAQ](#) units read the digital data generated by the different contractors at the rig, in WITS / WITSML / and proprietary binary formats. Standard [PetroDAQ](#) units provide multiple RS-232, RS-485 and Ethernet interfaces. It is also expandable to support CAN, Profibus, and other PC-supported standards on special orders.

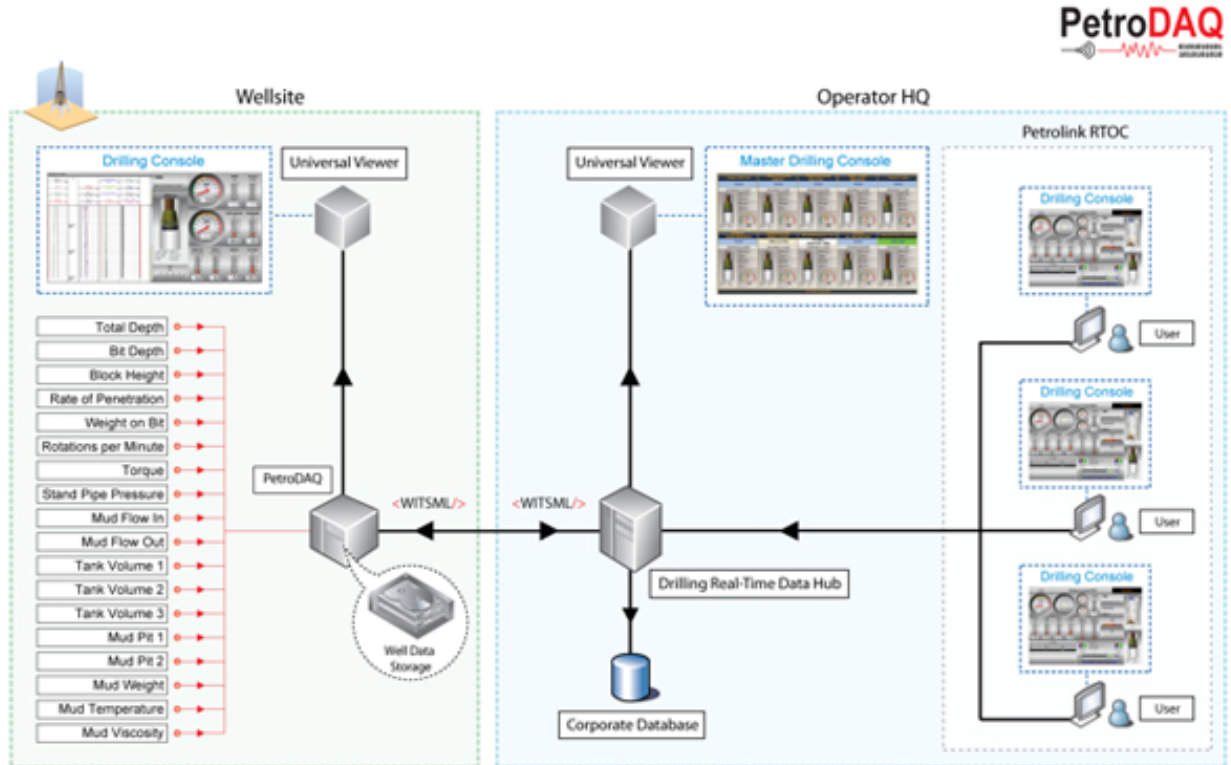
[PetroDAQ](#) units can collect and aggregate all drilling data including sensor data, digital data, and proprietary formats.

ICP DAS USA, Inc. [www.icpdas-usa.com](http://www.icpdas-usa.com), 1-310-517-9888  
1508 West Pacific Coast Highway, Harbor City, CA 90710



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## Typical Data Flow: Network Topology



PetroDAQ chose [ICP DAS](http://www.icpdas.com) hardware because it is cost effective, has convenient din rail mounts for easy installation, has a wide operating temperature range of -25°C to 75°C (-13°F to 167°F), and has built in signal barriers.