



The lighter, compact 4th Generation WQ QuB is a portable water quality station with optional mobile communications capabilities. Unit shown 36" x 24" x 14", weight approx. 100 lbs.

Eyasco's QuB Lite measures all water quality parameters

**Temperature • pH • Turbidity  
Conductivity • TDS • Free Chlorine**

- Light weight (approx 100 lbs.)
- Truly plug-and-play with connectors for power, water supply, drain, antenna
- Portable case with wheels for easy transport
- Modular Design makes servicing easy
- Data acquisition and communications built-in
- Built-in web server for control and display
- Radio or cell telemetry for remote communication
- Runs on AC or DC/solar power
- Data viewable in web browser from any device
- Compatible with Eyasco's Merlin software

## 4th Generation Water Quality Monitoring System Focuses on Ease of Deployment

When portability is critical, the 4th Generation WQ QuB offers a lighter, more compact, all-in-one portable design for deploying monitoring stations in difficult or remote environments.

The WQ QuB G4 has been designed incorporating the latest innovations in sensor technology, data acquisition and communications. All components are modular for easy sensor replacement or re configuration. The instrumentation is housed in a protective, rugged and durable casing for manageable portability.



A portable, rugged, fully self-contained water quality station with easy access and instrument swap out capabilities.

### Developed and field-tested to monitor water quality in the most challenging locations

With a focus on weight, durability and value, the highest quality components are housed in a waterproof rugged polymer case enclosure, providing trouble-free operation even under the harshest conditions.

### Power management is a priority

The QuB can run on either AC or DC power, so even monitoring water resources in the most remote locations using solar power is possible. Plus, battery life is preserved by auto-switching from "power off" to "power on" only when critical measurements are required.



Model	Options	Description	Sensors For Parameters
QuB-WQ-STD		Off-line instruments standard	Turbidity, conductivity, pH, temperature
QuB-WQ-CT		Custom options	Call for quote
	-CV	AMT Data corrosion sensor	
	-FC	Free chlorine sensor	
	-RV	Raven-X cellular modem	
	-RF	Spread spectrum radio	
	-LL	Landline modem	

Communication Options	
Wireless Networking Modem	Wireless Network Modem: EV-DO rev A with fallback to CDMA 1x EV-DO Revision 0, CDMA 1xRTT, CDMA IS-95 800 Mhz to 1900 Mhz, Normally 902 to 928Mhz.
RF Communication	Spread Spectrum Radio: Frequency Range 902-928 MHz (FHSS). Output power: 5 mW to 1 Watt. Range: 60 Miles (line of sight). Modulation: 2 level GFSK, 115.2 Kbps or 153.6 Kbps. Sensitivity: -108 dBm for BER 1x10 <sup>-6</sup> , -110 dBm for BER 1x10 <sup>-4</sup> . Data transmission: Link throughput- 5.2 Kbps standard speed, 80 Kbps low speed. Data interface: Serial. Protocol: RS232 / 485 / 422 or TTL, 1200 Baud to 115.2 KBaud. Operating temp. range: -40 °C to +75 °C.
Phone	Analog Modem: Communicates over analog phone line. Compatible with any telecommunications or dial-up networking software.
Satellite	Global Star LEO, or Hughes BGAN

Instrument Options	
Turbidimeter	Range: 0–100 nephelometric turbidity units (NTU). ± 2% of reading or ± 0.02 NTU (whichever is greater) from 0 to 40 NTU. Accuracy: ± 5% of reading from 40 to 100 NTU (when calibration is performed at 20.0 NTU with the offset turned off). Repeatability: Better than ±1.0% of reading or ±0.002 NTU, whichever is greater. Resolution: (displayed) 0.0001 NTU up to 9.9999 NTU; 0.001 NTU from 0.000 to 99.999 NTU; 0.01 NTU at 100.00 NTU.
Conductivity Sensor	Measurement Range 0-1000µS to 0-30S; Exact ranges and measurement accuracy are determined by the instruments. Pressure/Temperature measurements: 105 psi at 105°C. Maximum flow rate: 10 ft (3 m)/sec. Operating temp. range: -10 to 105°C
pH Sensor	Measuring Ranges: pH 0 to 14 pH. Flow rate: 10 ft./sec max. Flow should be as low as possible in low conductivity water and in solutions with high suspended solids. Sensitivity pH: Less than 0.005 pH. Stability: 0.03 pH / 2mV per day, non-cumulative. Temp limits: -5 to 95°C (23 to 203°F)
Flowmeter	Accuracy: RMA 4%, RMB: 3% (RMB-49: 5%), RMC: 2% of full scale. Pressure limits: 100 psi (6.9 bar), Temperature limits: 130°F (54°C).
Corrosion Sensor	Output Readings: Mild Steel Corrosion range: 0 to 20 mills per year. Copper Corrosion range: 0 to 20 mills per year. Zinc Corrosion range: 0 to 20 mills per year 4 to 20 MA output low side: 4.0 mA = 0.0 mills per year corrosion rate: 4 to 20 MA output high side: 20.0 mA = 20.0 mills per year corrosion rate. Environmental Specifications: Operational temperature: 32 - 120 deg. F (0 - 49 deg. C). Probe material: CPVC. Probe operational pressure: 0 PSI to 120 PSI at 49 deg. C or less probe temperature range: 0 deg. F to 120 deg. F at 120 PSI or less.
Transmitters	Vary based on selection of instruments. Standard model Rosemount 1056 multi-line LCD Display. Powered, 16 to 32 VDC. Memory backup: All user settings are retained indefinitely in memory (EEPROM).
Instrument Mountings	pH, Conductivity, Chlorine are Tri Clover mounted for easy removal and calibration

Other Specifications			
Power	120V A/C @ 0.135A max	24V DC @ 0.675 max	Power Hookups: 120V A/C, Solar Panel 24V, 24V DC
Campbell Scientific CR1000 Datalogger	4MB SRAM Data Storage	2MB Operation System	128K Flash
Dimensions	36x30x12	Nema 4 Stainless Steel single door wall-mount enclosure.	
Weight	100 pounds		

Transmitters and Dataloggers are pre-programmed by Eyasco so all readouts and data should be automatically displayed when the system is powered up. All sensors are factory calibrated, outputs are tested and calibrations and readings verified before shipment.