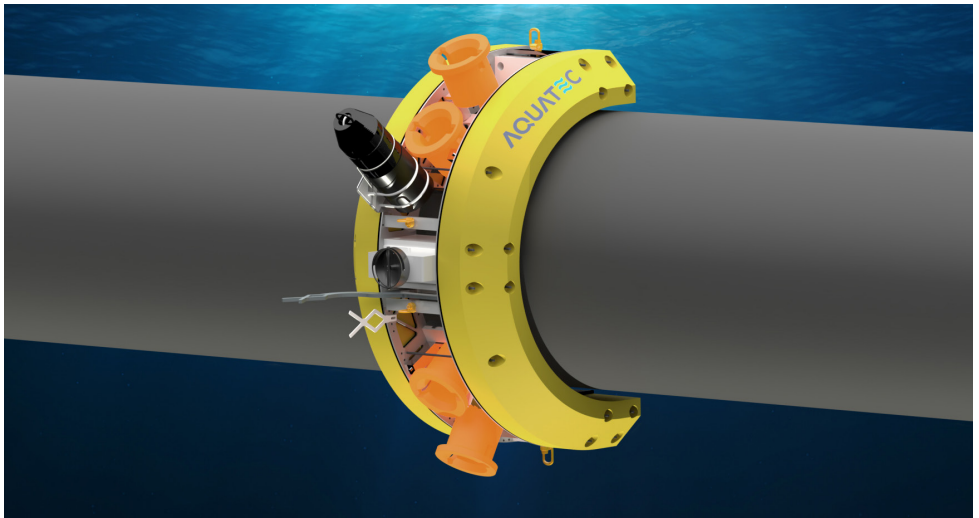


DATASHEET

Retrofit Subsea Strain Monitoring System

KINEKtron®

Aquatec's KINEKtron® is a fully featured retrofit subsea strain monitoring system capable of measuring brace longitudinal strain on a variety of tubular structural members. The system combines precise 3-quadrant micro-strain measurements with storage and subsea communication capabilities in a robust ROV-installable package.

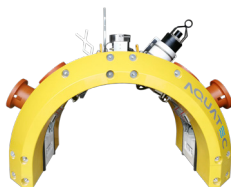


KEY FEATURES

- Magnetic Attachment
- Three sets of two strain gauges covering 3 quadrants of the brace
- Half-circle shape for enhanced installation
- Subsea ROV switch for hydraulic deployment
- For pipe sizes of Ø 1.2 m, Ø 1.4 m, Ø 1.6 m, Ø 1.8 m and scalable to others
- 3.3 Hz continuous data logging
- 3-year battery life
- Brace pipe engagement indicators
- Magnetic force test sacrificial fishtail handle
- Buoyancy modules
- Instrument pod rated to 150m and protective shroud at installation
- Data acquisition, storage and comms electronics
- Wetmate connector for surface interaction
- ROV handle
- Pressure sensor, accelerometer, acoustic modem and optical modem

Specifications

Clamp	Pipe Diameter	1,200 mm (Scalable to other sizes)
	Weight in Air	320 Kg
	Weight in Water	20 Kg
	Height	1,675 mm
	Type	Half Circle
	Mounting	Magnetic mount
	Magnetic Force	1,320 Kg
Instrument Pod	Depth Rating	150 m
	Logging Rate	3.3 Hz
	Battery Life	3 years continuous operation
	Battery Type	Lithium pack certified for transport
	Memory Capacity	4.6 GB
Sensors	Number of Strain Gauges	6
	Position of Strain Gauges	3 quadrants
	Strain Gauge Range	$\pm 2000 \mu\epsilon$
	Resolution	Better than $10 \mu\epsilon$
	Accelerometer	Range $\pm 2g$, Resolution 0.244 mg/count, 16 bit data
	Pressure Sensor	Range 10 bar, Accuracy 0.02% FS
Communications	USB	Flat USB connection
	Acoustic	Status Acoustic Modem: Clamp ID, battery, health status, data, strain status data. Update: 15 min. Range: Approx. 200 m
	Optical	AQUAmodem® Op2: Capability to download a full data set with ROV. Speed: 1,000kbps



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