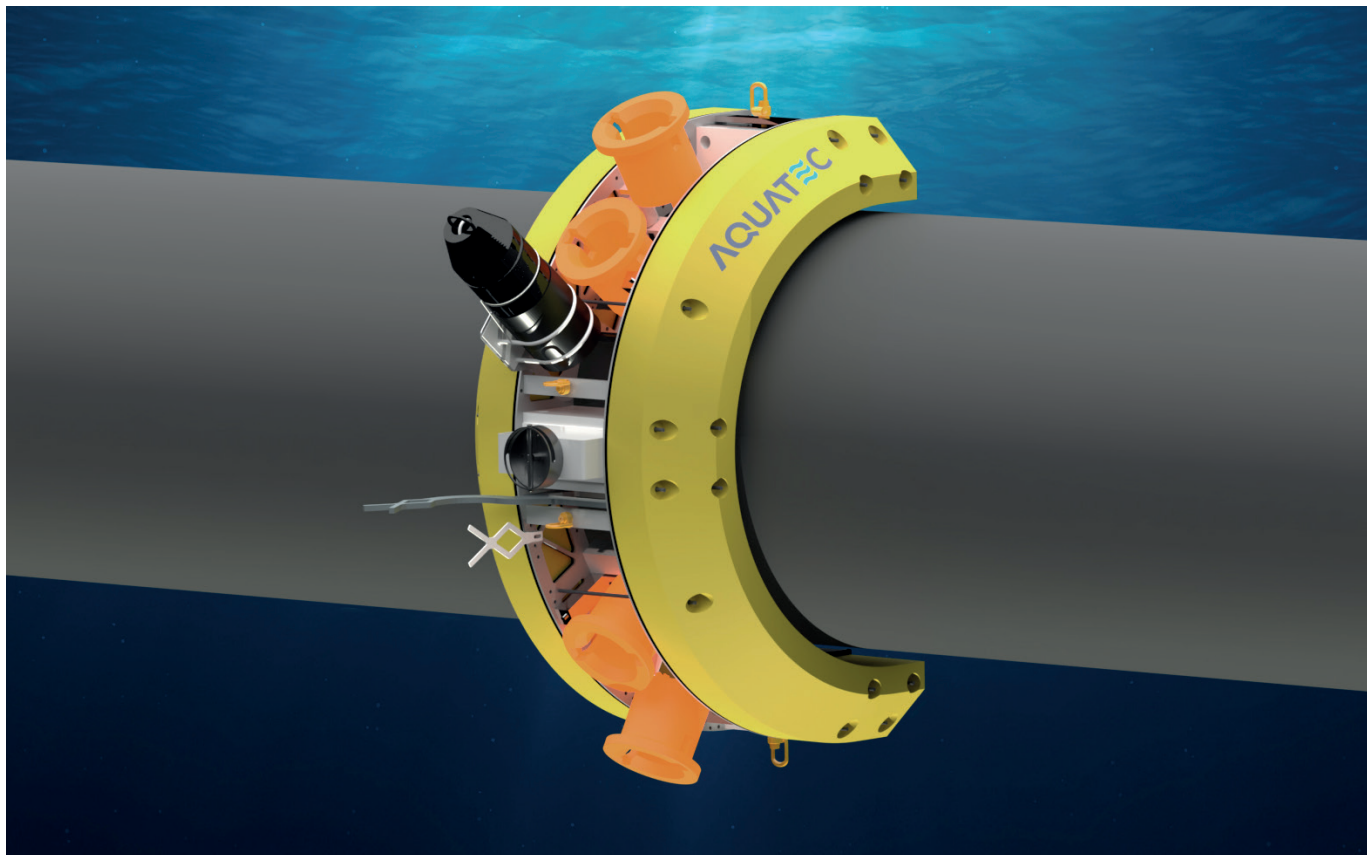


Retrofit Subsea Strain Monitoring System

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.

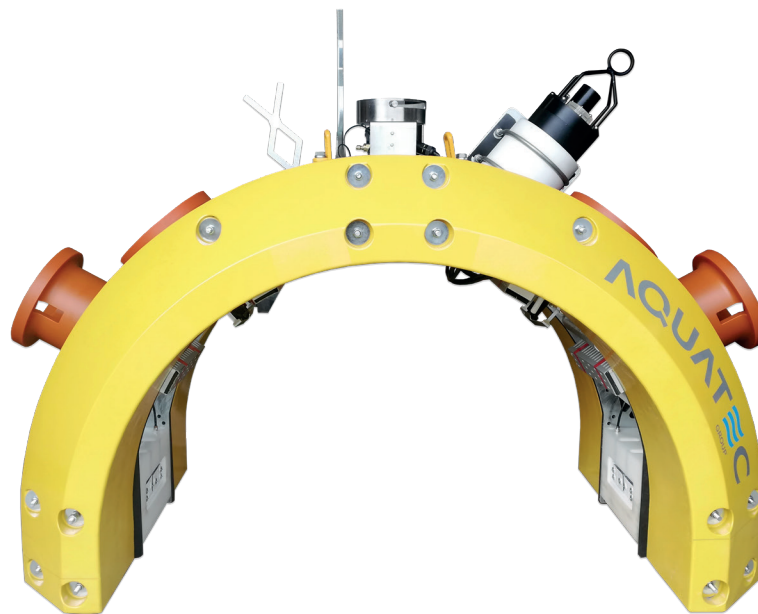


Key Features

- 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 (Kg)	320 kg		
Weight in water (Kg)	20 Kg		
Width	875 mm		
Height	1,675 mm		
Type	Half circle		
Mounting technique	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	± 2000 µε		
Resolution	Better than 10 µε		
Accelerometer	Range (g)		Resolution (mg/count)
	± 2		0.244
16 bit data			
Pressure sensor	Range		Accuracy
	10 bar		0.02% FS
Communications			
USB	Flat USB connection		
Acoustic communication	Status acoustic modem	Update	Range
	Clamp ID, battery, health status, data, strain status data	15 min	Approx. 200 m
Optical communication	AQUAmodem® Op2c		Speed
	Capability to download a full data set with ROV		1,000 kbps



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