

MINI TEMPERATURE & PRESSURE LOGGERS

AQUAlogger® 520 - Datasheet



Models

Standard Loggers: 520T and 520PT

High-speed Temperature Loggers: 520HST and 520PHST

KEY FEATURES

- Measure temperature and pressure in a self-contained logger
- Pressure to depth conversion
- Compact wireless design
- Up to 5 years battery life
- User-friendly data upload
- Flexible sampling - options for continuous and burst sampling, up to 1 Hz sample rates and averaging

APPLICATIONS

- Oceanographic and environmental research
- Environmental impact assessments
- Temperature distribution surveys
- Long term time series at fixed observatories

AQUAlogger® 520 SPECIFICATIONS

SENSOR	Pressure	Piezo-resistive bridge 2 bar (~10 m), 4 bar (~30 m), 5 bar (~40 m), 11 bar (~100 m), 51 bar (~500 m), 101 bar (~1000 m) ±0.2% FS accuracy*, 0.01% FS resolution
	Temperature	Thermistor -2 to 35°C standard range ±0.05°C accuracy, 0.001°C resolution Time constant - better than 5 seconds to 63% of the change in value (high-speed temperature probe with 1 second time constant also available)
LOGGER	Parameters	Pressure, temperature, battery voltage Depth - derived parameter
	Memory	> 250,000 parameters readings in non-volatile FLASH
	Logging Lifetime	Typically 5 years, depending on regime
	Data Retention	>10 years
	Sampling	Burst or continuous
	Acquisition Range	Up to 1 Hz
	Burst Averaging	Bursts may be averaged to a single data value
	Logger Communication	Wireless system via separate drop-in reader
	Reader Communication	USB, bus powered
	Battery	3.6V custom lithium 'AA' cell -technician replaceable
	Software	AQUAtalk™ for configuration and download
	Maximum Depth	100 m
	Material	Acetal
	Weight	190 g (6.4 oz) in air 41 g (1.5 oz) in water
	Dimensions	Diameter - 32 mm (1.3"), Length - 200 mm (7.9")
Attachment	Single or double point attachments, with holes for screw attachment and shackles (provided) for rope, shackle or carabiner attachment	
MODELS	AQUAlogger® 520T	Temperature logger, maximum 1000 m depth
	AQUAlogger® 520PT	Pressure and temperature logger, maximum 1000 m depth (sensor dependent)
	AQUAlogger® 520HST	High speed temperature logger, maximum 1000 m depth
	AQUAlogger® 520PHST	Pressure and high-speed temperature logger, depth dependent on pressure sensor



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