



## Product Datasheet

### ADC-1

General purpose transmitter for pulse outputs

ADC-1 is a general purpose transmitter for use with pulse outputs. Typical applications include collecting data from water, gas and electricity meters, rain gauges, soil moisture sensors and many other devices with compatible outputs.

Communicating with Taggle receivers, data can be collected over a wide geographical area. Typical ranges of more than 2km in urban and 5km in rural areas depending on installation and local geography are achievable.

ADC-1 is an extremely versatile device and has been used in a variety of water and environmental sector situations.



#### Technical Details

##### General

Dimensions (approx.)	235mm (L) x 34mm(dia.)
Weight (approx.)	130g
Enclosure Material	Ultramid®

##### Environmental

Ingress Protection	IP68
Operating Temperature	-10° C to 60° C (Average temperature not to exceed 30°C)

##### Battery

Type	Lithium Thionyl Chloride (non-replaceable)
Voltage	3.6V
Life	12 years+ (1 transmission/hour)

##### Transmitter

Type	Taggle Byron A31
Operating Frequency	922MHz
Signal Type	Direct Sequence Spread Spectrum
Licence	ACMA LIPD Class (Low Interference Potential Device)
Operating Range	Ranges of more than 2km - 5km in urban and 5km - 50km in rural areas are regularly achieved. Ranges actually achieved will depend on local installation conditions and geography.

Taggle produces a variety of devices with low and high power output which provides us with great flexibility in addressing range issues in the most economical way.

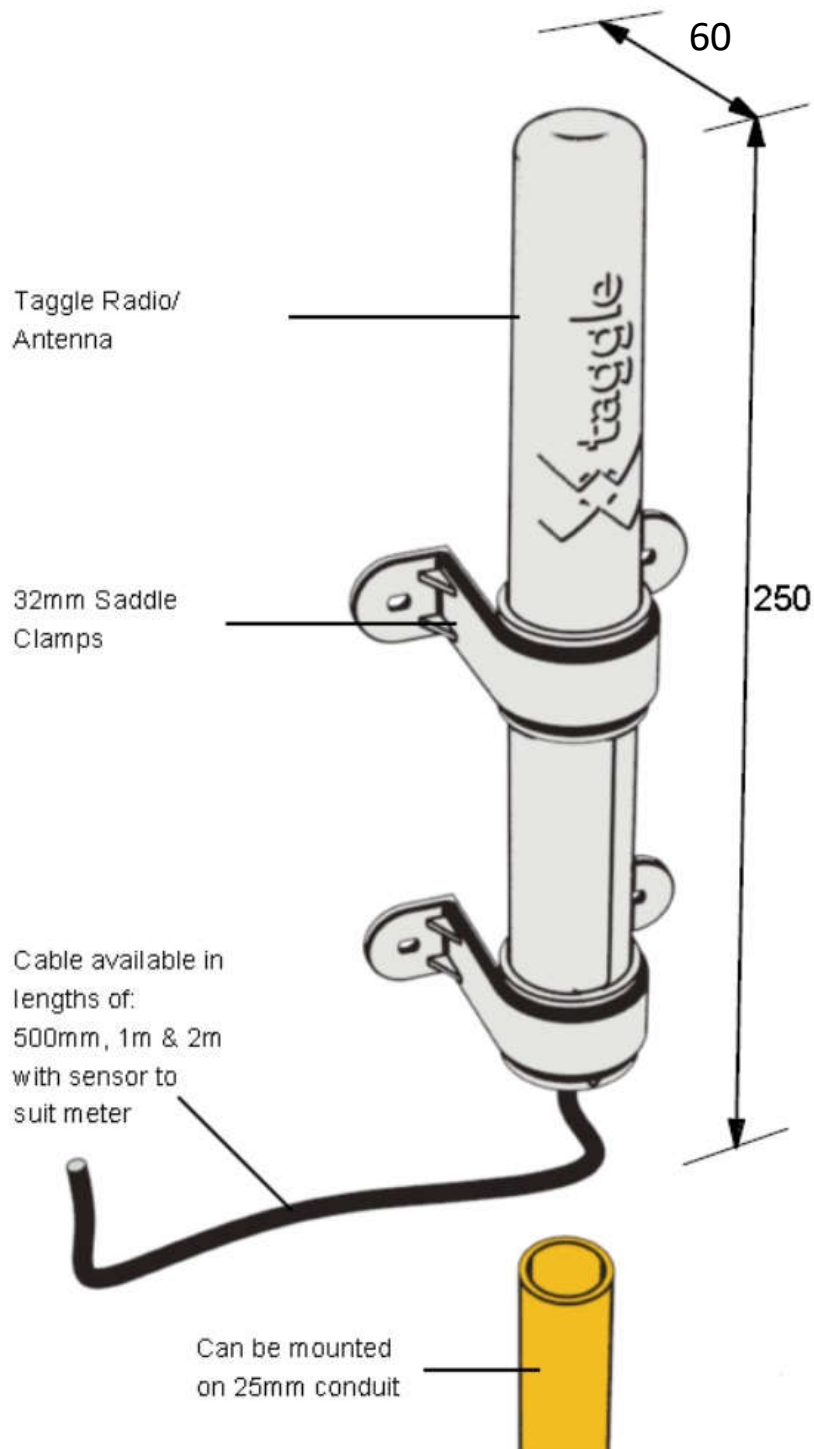
##### Input

Type	Suitable for use with both contact closure (reed switch, relay) and voltage (open collector, FET) pulses
Contact Closure Resistance	>50kΩ Open, <200Ω Closed
Voltage	3.7V (max); <0.6V (Low); >1.1V (High)
Minimum Pulse Width	500µs
Maximum Pulse Rate	1kHz
Tamper	Yes, Fly-lead cut

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