

Aerodynamic rain gauge ARG100

A rugged
low-cost
rain gauge
for accurate
collection and
measurement
of rainfall

A conventionally shaped rain gauge interferes with the airflow so that the catch is reduced. The low cost ARG100 rain gauge has been designed to minimise this effect by presenting a reduced side area to the wind.



Applications

- Accurate collection and measurement of rain water

Benefits

- Aerodynamic profile
- Rugged UV resistant plastic
- Proven tipping bucket design
- Compatible with all loggers and event recorders
- High level of accuracy

Choice of dataloggers

Waterra offer a choice of two dataloggers for use with the ARG100 rain gauge - see following page for further details



*RainCounter
TT-RainCounter*

*Dedicated two channel
rain gauge datalogger
AR-DT2*



Technical specifications

Funnel diameter:	254mm (10.0 inches)
Funnel rim height:	340mm (13.4 inches)
Tip sensitivity:	0.20mm of rain per tip (0.1 or 0.25mm, if required)
Output:	Contact closure
Power requirements:	None
Weight:	1 kg

Ordering information

ARG100	Standard aerodynamic rain gauge
ARB1	Rain gauge baseplate, for easier mounting and levelling

RainCounter (TT-RainCounter)

The RainCounter is a data logger designed to count the tips of a standard tipping-bucket rain gauge with a reed switch output *. Compact and waterproof (IP68) this durable field unit offers reliability with a replaceable battery that lasts up to 2 years.

- Saves up to 64,000 readings
- 2 year replaceable Tekcell battery (1/2 AA)
- Simple to use software options



Left:
RainCounter
installed
into ARG 100
Rain Gauge

Ordering information

TT RainCounter	RainCounter including: <ul style="list-style-type: none"> ● Datalogger ● Rain gauge connection cable ● Software ● USB cable for PC connection
AR-FIT	Assemble/fit RainCounter to ARG-100 Rain Gauge

Dedicated two channel rain gauge datalogger (AR-DT2)

The AR-DT2 data logger is a dedicated two channel data logger. The logger includes a digital channel for use with a tipping bucket rain gauge* and a second 0-1V analogue channel for a separate sensor (e.g. temperature).

- Analogue and digital channel.
- PC interface through Hyper Terminal (free download from Microsoft) or similar.
- Saves up to 16,000 readings
- Runs for up to 18 months on 4 user- replaceable AA batteries.
- Current battery level function.



Ordering information

AR-DT2	Dedicated two channel rain gauge data logger and cable
AR-DTRSC	Logger to PC cable with reset button – RS232 connection
AR-FIT	Assemble / fit logger cable to ARG-100 rain gauge

Technical specifications / comparison

	DT2 Logger	RainCounter
Model	AR/DT2	TT-RainCounter
Part number	AR/DT2	TT-RainCounter
Battery type	Replaceable (4 x AA)	Replaceable Tekcell SBAA02P or 1/2AA 3.5V (Li SOC12)
Battery life	up to 18 months (assumes monthly downloads)	up to 2 years
Operating temperature	-20°C to 50°C	-40°C to 85°C
Max number of readings	up to 16,000 sets	64,000 sets
Memory	Non-volatile EEPROM	Non-volatile
Communication	Plug in cable	Cable to USB
PC connection	RS232	USB
Sample rate	3 seconds to 24 hours	1 second to 10 days
Size	120mm x 55mm x 80mm	34mm x 59mm x 80mm
Weight	250 gram	110 gram
Output files	ASCII	CSV
Software	Hyper Terminal (Microsoft download)	Supplied

* **Logger connection** - Both loggers include separate cable for connecting to the rain gauge which requires some basic tooling including soldering equipment and a heat gun. Waterra can pre-connect the cable on request.

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