

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

Dedicated two channel rain gauge datalogger AR-DT2



Solinst Rainlogger S3002/RL01



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

Dedicated two channel rain gauge datalogger AR-DT2

Dataloggers

The AR-DT2 data logger is a dedicated two channel data logger for rain gauges. The logger comprises a digital channel for the measurement of a contact closure from a tipping bucket rain gauge. There is second 0-1V analogue channel for a separate sensor (for example, temperature). The unit is fully compatible with the ARG100 tipping bucket rain gauge and is fully configurable by the user to allow easy modifications of the ARG100's sensor calibration factor. The AR-DT2 logger is powered by 4 AA alkaline batteries.

Cables

The unit is supplied complete with a cable to allow connection to the ARG100 rain gauge*.

A special RS232 cable with reset button (AR-DTRSC) is required to connect the logger to a PC.



- 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 four 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

Rainlogger S3002/RL01

The Rainlogger is a data logger designed to count the tips of a standard tipping-bucket rain gauge with a reed switch output*. Compact and waterproof, this durable field unit offers long-term reliability with a battery that lasts up to 10 years.

The Rainlogger is compatible with Solinst Levellogger communication devices and software. Logged data can be downloaded direct to a PC or to a hand-held Leveloader Gold.

Ordering information

S3002/RL01	Rainlogger including 1 meter connection cable
S3001/SU	Standard communications package (USB) c/w optical reader & CD software
S3001/Scom	Standard communications package (RS232) c/w optical reader & CD software
AR-FIT	Assemble / fit logger cable to ARG-100 rain gauge



- Compatible with Solinst Levellogger software
- Saves up to 40,000 readings
- 10 year battery
- Simple to use software options

Technical specifications / comparison

Model	DT2 Logger	Rainlogger
Part number	AR/DT2	S3002/RL01
Battery type	Replaceable (4 x AA)	Sealed Alkaline
Battery life	up to 18 months (assumes monthly downloads)	10 years
Operating temperature	-20°C to 50°C	-20°C to 80°C
Max number of readings	up to 16,000 sets	40,000 sets
Memory	Non-volatile EEPROM	Non-volatile EEPROM, FRAM back-up
Communication	Plug in cable	Optical infra red (to USB or RS232)
PC connection	RS232	USB or RS232
Sample rate	3 seconds to 24 hours	5 minutes to 99 hours
Size	120mm x 55mm x 80mm	22mm dia x 175mm
Weight	250 gram	135 gram
Output files	ASCII	CSV
Software	Hyper Terminal (Microsoft download)	Levellogger package (FOC)

* **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.

© Copyright Waterra UK Limited 2009. Our policy is to continuously review and update product design, therefore some details may differ from the actual product sold. PR29-20091103



Waterra (UK) Ltd, Unit 4, 179-189 Stratford Road, Shirley, Solihull B90 3AU, UK
Tel: +44 (0)121 733 7743 Fax: +44 (0)121 733 7746 email: sales@WaterraUK.com

www.WaterraUK.com