

AERODYNAMIC RAINGAUGE ARG100



A conventionally shaped rain gauge interferes with the airflow so that the catch is reduced. The low cost ARG100 aerodynamic gauge has been designed to minimise this effect by presenting a reduced side area to the wind. The gauge was designed by the Institute of Hydrology, Wallingford, UK with a profile very similar to that derived theoretically and independently by the UK Meteorological office as an 'ideal' shape and is manufactured and marketed under licence.

The gauge is manufactured in U.V.-resistant plastic by vacuum-forming techniques which allow costs to be minimised while producing a very rugged instrument of comparable precision to gauges fabricated in other materials, but at much lower cost.

The collected rain is measured by the well-proven tipping bucket method which provides a contact closure at each tip. This is compatible with all loggers or event recorders. If required, Environmental Measurements can also supply a single channel logger which fits in a recess within the body of the gauge.

TECHNICAL SPECIFICATIONS

Funnel Diameter	: 254mm (10.0 inches)
Funnel Rim Height	: 340mm (13.4 inches)
Tip Sensitivity	: Standard setting 0.20mm of rain per tip; other setting 0.25mm, if required.
Output	: Contact closure.
Power requirements	: None.
Maximum allowable current through reed	: 300 mA; non inductive.
Weight	: 1000 gms.

Ordering information

ARG100	Standard aerodynamic gauge. No plug fitted
ARG100/LX	As above plus fitted plug to suit 1LX datalogger.
ARG100/EC	Aerodynamic gauge fitted with 6 metres of twisted pair cable. Suitable for AWS use.

Accessories and related products.

RGB1	Raingauge baseplate, for easier mounting and levelling of gauge.
RMS1	Rain monitoring system, includes ARG100, RGB1, 1LX logger, Cable and Software.
RMS2	Rain monitoring add-on systems, includes ARG100, RGB1, 1LX logger.