



ARG314 Aerodynamic Rain Gauge



The cost-effective choice of EML gauge for the professional Hydro-Met Services

Applications

- National Met Services
- Hydrology catchment projects
- Hydro-Met stations
- Industrial customers that need accurate data
- Weather enthusiasts
- Flood warning systems

Features and Benefits

- Optimum Aerodynamic shape from over 10 years of extensive field research
- Self-emptying instrument
- Replaceable reed switch as standard
- 0.1, 0.2 or 0.5mm resolution
- WMO Compliant
- UK manufactured

All EML gauges are rigorously laboratory and field tested. Outdoor field testing is carried out against a WMO compliant pit gauge at multiple sites.



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The unique design and aerodynamic shape of the ARG314 Tipping Bucket precipitation sensor increases measurement accuracy by capturing more rainfall than traditionally shaped cylindrical gauges. The ARG314 is precision-engineered to minimise out-splash and reduce rainfall losses caused by evaporation. The depth, diameter, and angle of the funnel have all been extensively tested and researched to give the optimum accuracy in the field.



The rugged UV resistant material means that the ARG314 can be installed in extremely hostile conditions. This gauge is available in 0.1mm, 0.2mm or 0.5mm resolution (per tip) and comes as standard with a single contact closure reed switch. A dual reed switch upgrade and/or siphon version are available on request. Quality is assured because the gauge is manufactured and assembled by EML in the UK. The ARG314 is a robust and versatile instrument and is compatible with all modern data loggers and event recorders.

Technical Specifications		Ordering Information	
Resolution	0.1mm, 0.2mm or 0.5mm	Order Code	Product
WMO Compliant	Yes	P-780-300	ARG314/STD (0.1mm) - Standard
Output	Contact Closure (Reed Switch) – Dual reed switch upgrade available	P-780-301	ARG314/EC (0.1mm) - Standard with 6m cable
Typical Accuracy	0.1mm Gauge +/- 3% up to 50mm/hr (Class A) 0.2/0.5mm Gauges +/- 3% up to 120mm/hr (Class A)	P-780-302	ARG314/L (0.1mm) - Standard with plug for internal EML logger
		P-780-303	ARG314/STD (0.2mm) - Standard
Accuracy with Mathematical Correction (0.1mm)	+/- 3% up to 500mm/hr (Class A)	P-780-304	ARG314/EC (0.2mm) - Standard with 6m cable
Accuracy with Mathematical Correction (0.2mm)	+/- 3% up to 1000mm/hr (Class A)	P-780-305	ARG314/L (0.2mm) - Standard with plug for internal EML logger
Accuracy with Mathematical Correction (0.5mm)	+/- 3% up to 1500mm/hr (Class A)	P-780-306	ARG314/STD (0.5mm) - Standard
Operating Temperature	0°C - 70°C		
Funnel Diameter	20.0cm / 7.87 Inch	Ordering Information - Accessories	
Funnel Area	314cm ² / 48.67 sq. Inch	Order Code	Product
Height	43.5cm to 46.5cm (with feet adjustment)	P-780-320	ARG314 Dual reed switch upgrade
Weight	2Kg	P-780-319	ARG314 spares kit
Colour	White	contact sales	ARG314 siphon upgrade

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