



SBS Lite Aerodynamic Rain Gauge



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

Applications

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

Features and Benefits

- Optimum Aerodynamic shape from 10 years of extensive field research
- Self-emptying instrument
- Removable reed switches as standard
- 0.1, 0.2, 0.5mm resolution
- WMO Compliant

All EML gauges are rigorously laboratory and field testing. Outdoor field testing is carried out for a minimum of 12-months against a WMO compliant pit gauge at multiple sites.



Copyright Environmental Measurements Limited (EML)

7 Jupiter Court
Orion Business Park
North Shields
NE29 7SE
United Kingdom
Phone: +44-(0)191-2583757
email: sales@emltd.net
web: www.emltd.net



The SBS Lite rain gauge has an injection moulded base with an aluminium funnel. The collection area of the funnel has been precision glass bead shot-blasted to help the breaking of the surface tension of the raindrops

The unique design and aerodynamic shape of the SBS Lite Tipping Bucket precipitation sensor increases measurement accuracy by capturing more rainfall than traditionally shaped cylindrical gauges. The SBS Lite 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.



Quality is assured because the gauge is manufactured and assembled by EML in the UK. The SBS Lite is a robust and versatile instrument and is compatible with all modern data loggers and event recorders.

Technical Specifications	
Resolution	0.1mm / 0.2mm / 0.5mm
WMO Compliant	Yes
Output	Contact Closure (Reed Switch)
Typical Accuracy	All gauges 2% up to 25mm/hr (Class A)
	0.1mm Gauge +/- 3% up to 50mm/hr (Class A)
	0.2mm / 0.5mm Gauges +/- 3% up to 120mm/hr (Class A)
Accuracy with Mathematical Correction (0.1mm)	+/- 3% up to 500mm/hr (Class A)
Accuracy with Mathematical Correction (0.2mm)	+/- 3% up to 1000mm/hr (Class A)
Accuracy with Mathematical Correction (0.5mm)	+/- 3% up to 1500mm/hr (Class A)
Operating Temperature	0°C - 70°C
Funnel Diameter	SBS314 Lite (20 cm) SBS500 Lite (25.2 cm)
Funnel Area	SBS314 Lite (314 cm ²) SBS500 Lite (500 cm ²)
Height	SBS314 Lite (43.5-46.5 cm) SBS500 Lite (46.0-49.0 cm)
Weight	SBS314 Lite (3 Kg) SBS500 Lite (3.25 Kg)
Colour	White

Ordering Information	
Order Code	Product
P-780-3981	SBS314 Lite (0.1mm)
P-780-3982	SBS314 Lite (0.2mm)
P-780-3983	SBS314 Lite (0.5mm)
P-780-3991	SBS500 Lite (0.1mm)
P-780-3992	SBS500 Lite (0.2mm)

Ordering Information - Accessories	
Order Code	Product
P-780-490	SBS spares kit
P-780-491	SBS spares kit Including Nozzle

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