



## SBS RANGE

# Aerodynamic Rain Gauge



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

Applications	Features and Benefits
<ul style="list-style-type: none"><li>• National Met Services</li><li>• Hydrology catchment projects</li><li>• Hydro-Met stations</li><li>• Industrial customers that need Class A accurate data</li><li>• Weather enthusiasts</li><li>• Flood warning systems</li></ul>	<ul style="list-style-type: none"><li>• Optimum Aerodynamic shape from 10 years of extensive field research</li><li>• Self-emptying instrument</li><li>• Dual, removable reed switches as standard</li><li>• Choice of the UK Met Office</li><li>• 0.1, 0.2, 0.5mm resolution</li><li>• WMO Compliant</li></ul>

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.



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The unique design and aerodynamic shape of the SBS Tipping Bucket precipitation sensor increases measurement accuracy by capturing more rainfall than traditionally shaped cylindrical gauges. The SBS 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 SBS314 is ideal for heavy rainfall regions, the SBS500 is favoured in a mixed climate such as Europe and the SBS1000 is particularly good in low, light rain areas.



The coated aluminium design means that the SBS can be installed in extremely hostile conditions. A version with internal heaters is also available for cold climate installations (contact EML for more information). The internal of the funnel has been precision glass bead shot-blasted to help the breaking of the surface tension of the raindrops.

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

Technical Specifications	
Resolution	0.1 / 0.2 / 0.5mm 0.005 / 0.01 / 0.02inch available (See order information)
WMO Compliant	Yes
Output	Contact Closure (Reed Switch)
Typical Accuracy	99% up to 120mm/hr
Rainfall Intensity	SBS314 (0-1750 mm/hr), SBS500 (0-1200mm/hr), SBS1000 (0-600mm/hr) With mathematical correction over 120mm/hr - contact EML
Operating Temperature	0°C - 70°C
Funnel Diameter	SBS314 (20cm) SBS500 (25.2cm), SB1000 (35.7cm)
Funnel Area	SBS314 (314cm <sup>2</sup> ), SBS500 (500cm <sup>2</sup> ), SBS1000 (1000cm <sup>2</sup> )
Height	SBS314 (43.5-46.5cm) SBS500 46.0-49.0cm) SBS1000 (53.0-56.0cm)
Weight	SBS314 (5.5Kg), SBS500 (6Kg), SBS1000 (7.5Kg)
Colour	White (or Green on request)

Ordering Information	
Order Code	Product
P-780-4050	SBS314 (0.1 mm)
P-780-405	SBS314 (0.2 mm)
P-780-4049	SBS314 (0.5 mm)
P-780-4081	SBS314 (0.01 inch)
P-780-4001	SBS500 (0.1 mm)
P-780-400	SBS500 (0.2 mm)
P-780-404	SBS500 (0.01 inch)
P-780-410	SBS1000 (0.1mm)
Other options available Contact EML for details	
Ordering Information - Accessories	
Order Code	Product
P-780-491	SBS spares kit Including Nozzle

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