

AERODYNAMIC PRECIPITATION SENSOR: SBS



The unique design and aerodynamic shape of the SBS 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 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.

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 therefore compatible with all modern data capture units and event recorders.

TECHNICAL SPECIFICATIONS

Funnel Rim Height	440mm
Tip Sensitivity	0.20mm or 0.10mm of rain per tip
Output	Contact closure.
Reed contact rating	50W (DC resistive)
Reed supply current (Max)	1Amp
Reed supply voltage (Max)	100V DC
Typical accuracy	98%+ at 20mm/hr 96%+ at 50mm/hr 95%+ at 120mm/hr
Heated version – supply current:	<u>12V supply</u> - heaters off –12mA typical - heaters on – 2.2A typical <u>24V supply</u> - heaters off –15mA typical - heaters on – 1.1A typical Heaters activated by internal thermostat when temperature in enclosure falls to approximately 1°C and de-activated when temperature rises to 4°C
Weight	6Kg (standard size)
Colour	Available in white or British Standard green

ORDERING INFORMATION

SBS314	Standard aerodynamic gauge. 200mm diameter (314cm ² collector), 0.2mm tip.
SBS500	Standard aerodynamic gauge. 252mm diameter (500cm ² collector), 0.2mm tip.
SBS1000	Standard aerodynamic gauge. 357mm diameter (1000cm ² collector), 0.1mm tip.
SBS314H	Standard aerodynamic gauge. 200mm diameter (314cm ² collector), 0.2mm tip with internal heaters.
SBS500H	Standard aerodynamic gauge. 252mm diameter (500cm ² collector), 0.2mm tip with internal heaters.
SBS1000H	Standard aerodynamic gauge. 357mm diameter (1000cm ² collector), 0.1mm tip with internal heaters.

ACCESSORIES AND RELATED PRODUCTS

DT2-R	Small, dedicated Rain monitoring data logger
DT-CAB	DT2 data logger (RS232) serial communication cable