

## AERODYNAMIC RAINGAUGE SBS RANGE



The SBS rain gauge benefits from the company's extensive experience in the manufacture and marketing of aerodynamic rain gauges over a period of 20 years plus, also, the research and development expertise of Dr Ian Strangeways of TerraData, a renowned international expert in rainfall measurement techniques. The SBS rain gauge is the result of over 3 years extensive fieldwork carried out by Dr Strangeways into determining the optimum design of rain gauge for accurate rainfall measurement in all climatic conditions irrespective of wind speed and type of precipitation e.g. drizzle or heavy, convective or tropical rain. The unique design and aerodynamic shape of the SBS rain gauge increases measurement accuracy by capturing more rainfall than traditionally shaped cylindrical gauges, minimising out splash and reducing rainfall losses caused by evaporation.

The funnel of the gauge is made from 2.5mm thick powder coated aluminium while the base is manufactured in LM6 marine grade aluminium. The gauge can therefore be installed in extremely hostile conditions. A version with internal heaters is also available for cold climate installations.

The gauge is compatible with all modern loggers and event recorders including our own DT2 two channel data logger which sits neatly inside the base of the rain gauge. Two reed switches are fitted as standard giving the option of monitoring the gauge on an additional channel if required or alternatively for use as a control output.

## TECHNICAL SPECIFICATIONS

Funnel Rim Height	:	440mm
Tip Sensitivity	:	0.20mm or 0.10mm of rain per tip
Output Reed contact rating	:	Contact closure. 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
	:	<u>12V supply</u>
Heated version – supply current:	:	- 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)

## ORDERING INFORMATION

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

## Accessories and related products.

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