

Compare Biral's visibility and present weather sensors

Visibly better high specification sensors - HSS range

HSS sensors have been a market leader for over 20 years with a proven track record. They are very durable and highly accurate, operating problem-free for many years even in harsh and marine conditions from the tropics to the arctic. Suitable for RVR use on airports.

Showing the way forward with the Safe Weather Sensors - SWS range

SWS sensors are a new range based on the same proven technology as the HSS sensors but at a fraction of the cost. With slightly lower specifications and less expensive metalwork than the HSS range the SWS sensors are ideal for a wide variety of applications in most conditions (excluding marine environments).

<h3>HSS range</h3> 	<h3><i>new</i> SWS range</h3> 
<p>Key Features:</p> <p>Measurement ranges: 3 m - 300 km (VF-500) 10 m - 75 km (VPF-700s)</p> <p>Outputs: (model dependant) WMO table 4680 present weather outputs and Drop Size Distributions (VPF-730) 1 or 2 user configurable switching relays (VF-500)</p> <p>Construction: corrosion resistant salt-dip brazed, hard anodised aluminium.</p> <p>Error accuracy: from +/- 2%</p> <p>Analogue inputs: optional (VPF-700s)</p>	<p>Key Features:</p> <p>Measurement ranges: < 10 m - 2 km (SWS-100) < 10 m - 20 km (SWS-200)</p> <p>Outputs: 4 present weather outputs both digital and analogue outputs 3 switching relays</p> <p>Construction: powder coated aluminium</p> <p>Error accuracy: < 10 %</p>

Key differences between the HSS and SWS ranges

	HSS Range	SWS Range
measurement ranges	3 m - 300 km (VF-500) 10 m - 75 km (VPF-700s)	< 10 m - 2 km (SWS-100) < 10 m - 20 km (SWS-200)
measures present weather	over 20 types	4 types
digital and analogue outputs	either or	both
EXCO outputs	yes	-
drop size distribution outputs	yes*	-
precipitation accumulation outputs	yes with user selectable time frame*	yes with fixed 24 hour time frame
switching relays	up to 2 user configurable relays*	3
optional analogue inputs	yes*	-
optional ambient light sensor	yes*	-
highly corrosion resistant	yes	-
hazardous zone I and II convertible	yes	-
accuracy and durability	market leading accuracy and durability	industry standard

* optional extra or certain models only

Other benefits

	HSS Range	SWS Range
measures visibility (in km)	●	●
RS232 Or RS422	●	●
window heaters	●	●
optional sensor heating	●	●
low power requirements	●	●
no servicing required	●	●
no spare parts required	●	●
negligible maintenance	●	●
DC (battery) or AC (mains) powered	●	●*

*with optional mains adaptor box

Application suitability

	HSS Range	SWS Range
suitable for airport use	●	
suitable for marine and offshore use	●	
suitable for highway and tunnel use	●	●
suitable for wind energy use	●	●
suitable for general meteorological use	●	●
suitable for micro-meteorology (research)	●	

