

## Accurate visibility and present weather sensors

The **Biral HSS VPF-710 visibility sensor** can be combined with the **Thies Laser Precipitation Monitor (LPM)** to give accurate visibility data and detailed present weather information.



*The Biral HSS VPF-710 visibility sensor*

*The Thies Laser Precipitation Monitor (LPM)*

### The advantages of combining these sensors

**VPF-710** - the function of the VPF-710 sensor is to provide accurate visibility information (the sensor can also provide present weather codes but the number of codes are limited with lower accuracy than the LPM).

**LPM** - the Laser Precipitation Monitor provides complete precipitation information including liquid, freezing and frozen precipitation as well as some dry particulate but does not provide visibility information.

**By combining these sensors the best choice in terms of the amount and accuracy of information is achieved.** Both sensors are digital and output data in RS232 or RS422 communications formats with ASCII human readable data that is comma separated. The sensors are interfaced using the serial ports.

<b>Biral VPF-710 visibility sensor (used on many airports)</b>	
MOR:	10 m -75 km
Accuracy:	+/- 2 percent to 2 km +/- 10 percent up to 16 km maximum of +/- 20 percent from 16 km up to 75 km (15 percent at 20 km)
Repeatability:	+/- 3 percent
Time constant:	adjustable from 30 seconds up to 15 minutes but is standard at 60 seconds
Actuation interval:	less than 20 seconds

<b>Biral supplied Thies LPM present weather sensor</b>	
Precipitation sensitivity threshold:	0.005 mm/hr (instantaneous)
Precipitation intensity:	0.00 to greater than 250 mm/hr (values are displayed until 999 mm/hr)
Output codes:	METAR codes in 4678 format natively Encode: WMO 4677, 4678, 4680 tables with 1 and 5 minute averaging

*E. & E. O.*