

**Table 1: Monitoring site instrumentation characteristics.**

Variable	Sensor	Height or depth (m)	Measurement range	Maximum error	Site no.
Temperature (°C) and relative humidity (%)	HMP45C	2.0	-39.2 to +60°C and 0.8% to 100%	±0.5°C and ±3%	1
	HC2S3	9.5 and 11.0		±0.1°C and ±0.8%	2
Rainfall (mm)	Hydrological Services TB4	1.5 and 11.0	0 to 700 mm h <sup>-1</sup>	±3%	1 and 2
Atmospheric pressure (mbar)	Vaisala CS106	1.0	500 to 1100 mBar	±1.5 mBar	1
Wind direction (°) and velocity (m.s <sup>-1</sup> )	Young 05103	2.0 and 11.0	0 to 360° and 0 to 100 m s <sup>-1</sup>	±3° and ±0.3 m s <sup>-1</sup>	1 and 2
Solar radiation (MJ.m <sup>-2</sup> )	Kipp & Zonen CMP3	2.0	0 to 2000 W m <sup>-2</sup>	±5%	1
Soil moisture (%)	FDR Environscan Sentek	0.9 -0.1; -0.5; -0.7; -1.0 and -1.5	0 to ~65%	±3%	1*
					2
Net solar radiation (W.m <sup>-2</sup> )	Kipp & Zonen NR-LITE2	11.0	±2000 W m <sup>-2</sup>	±5%	2
Soil heat flux (W.m <sup>-2</sup> )	Hukseflux HFP01	-0.1	±2000 W m <sup>-2</sup>	-15% to +5%	2
Water table (groundwater) (m)	Diver Schlumberger	-40.0 and -39.2	0 to 10 m	± 2.5 cm	1 and 2

\*At site 1, the bare soil did not have soil moisture probes.

