

## Quality control flag scale – SPARC database

Flag	Meaning	Description
0	Good data	All quality tests passed
1	No data	Missing value
2	System error	System failure led to corrupted data, e.g. when the power supply broke down, sensors were removed from their proper location, sensors broke or the data logger saved error codes
3	Maintenance	Values influenced by the installation, calibration and cleaning of sensors or programming of the data logger; information from field protocols of engineers
4	Physical limits	Values outside the physically possible or likely limits, e.g. relative humidity should be in a range of 0-100%
5	Gradient	Values unlikely because of prolonged constant periods or high/low spikes; test within each single series
6	Plausibility	Values unlikely in comparison with other series or for a given time of the year; flagged manually by engineers
7	Decreased accuracy	Values with decreased sensor accuracy, e.g. identified when thawing soil does not have a temperature of 0° C
8	Snow covered	Good data, but the sensor is snow covered