AY-001 DIFFERENTIAL SPLITTER QUICK START GUIDE

The AY-001 allows the voltage signals from two sensors to be simultaneously measured by the µCache (AT-100) as differential voltage measurements.

When using the AY-001, select "2 CHANNEL" as the sensor type in the Apogee Connect mobile app. When you connect µCache-compatible sensors to the AY-001, the millivolt signals from the white and black leads of the sensors connected to channels "A" and "B" on the AY-001 will be relayed to the µCache as "Channel 1" and Channel 2" measurements. If you enter calibration factors, the milivolt signals will be multiplied by these factors before they are shown in the display, otherwise raw millivolt values will be shown. Since multiple sensor types can be connected, units (for example W/m² or µmols/m²/s) are not displayed for measurements made in the "2 CHANNEL" setting.

The AY-001 works with any unamplified analog sensor; it reads the voltage signal across the white and black wires. The AY-001 cannot be used to measure thermistors.

NOTE: Only (1) AY-001 can be connected to a µCache (AT-100) at a time. (No stacking "Y" splitters to add more inputs to the AT-100.)

CONNECTING TO UPWARD- AND DOWNWARD-LOOKING SENSORS

When connecting the AY-001 to an upward-looking and downward-looking sensor pair (for example the SP-510-SS and the SP-610-SS) be sure to connect the upward sensor to side "A" and the downward sensor to side "B" (see pictures below).

Side "A"   Side "B"

Side "B"

Side "A"

LIST OF COMPATIBLE SENSORS

- SQ-500-SS Full-spectrum Quantum Sensor
- SQ-110-SS Original Quantum Sensor
- SQ-120-SS Original Quantum Sensor
- SP-510-SS Upward-looking Thermopile Pyranometer
- SP-610-SS Downward-looking Thermopile Pyranometer
- SP-110-SS Silicon-cell Pyranometer
- SQ-620-SS Extended Range PFD Sensor
- SQ-640-SS Quantum Light Pollution Sensor
- SU-200-SS UV-A Sensor
- SE-100-SS Photometric Sensor