



METER
ENVIRONMENT

ENVIRONMENTAL/ CLIMATE MONITORING



SRS Sensors (NDVI and PRI)

The Apogee NDVI and PRI sensors are plug-and-play with the ZL6 loggers, and are designed for long-term monitoring of NDVI or PRI in the plant canopy. Each sensor measures the two relevant wavelengths needed to make the measurement. They are built for long-term exposure to the elements, encased in a durable housing with an epoxy fill, making them watertight, weatherproof, and with fully sealed optics. Mount them on a fence post, tripod, or a meteorological tower. They're rugged enough to leave in the field for an entire growing season or longer.

KEY FEATURES

- Fraction of the cost of a spectroradiometer.
- Inexpensive to maximize spatial coverage
- Built for long-term exposure to the elements
- Radiometrically calibrated to a NIST-traceable standard

SPECIFICATIONS

PRI SENSOR SPECIFICATIONS

- Wavelength ranges:
 - Green detector = $532 \text{ nm} \pm 5 \%$
 - Yellow detector = $570 \text{ nm} \pm 5 \%$
 - 10 nm full-width half-maximum
- Response time: Less than 0.6 s
- Field of view
 - S2-421 (upward-looking): 180°
 - S2-422 (downward-looking): 35°
- Directional (cosine) response: $\pm 2\%$ at 45° , $\pm 5\%$ at 75° zenith angle

NDVI SENSOR SPECIFICATIONS

- Wavelength ranges
 - Red detector = $650 \text{ nm} \pm 5\%$
 - NIR detector = $810 \text{ nm} \pm 5\%$
 - 65 nm full-width half-maximum
- Response time: Less than 0.6 s
- Field of view
 - S2-411 (upward-looking): 180°
 - S2-412 (downward-looking): 30°
- Directional (cosine) response: $\pm 2\%$ at 45° ; $\pm 5\%$ at 75° zenith angle