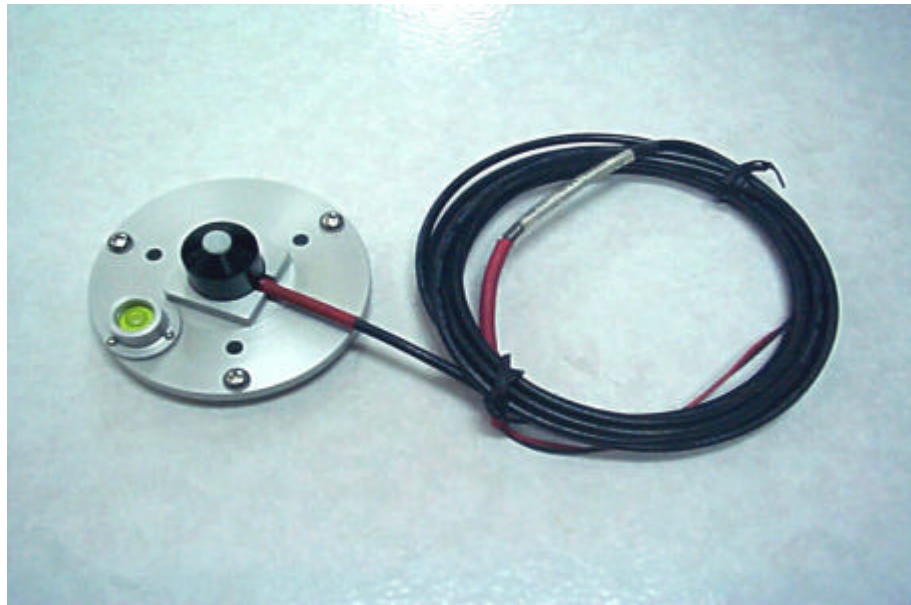


E20 SILICON PYRANOMETER



The E20 SILICON PYRANOMETER is designed for routine measurement of solar radiation including following application:

- A. Agricultural evapotranspiration estimation
- B. Meteorological studies
- C. Hydrological studies
- D. Air pollution dispersion calculation
- E. Plant growth studies
- F. Solar energy researches
- G. Others

The E20 uses a silicon photodiode detector to measure the solar energy received from the sunlight. The E20 SILICON PYRANOMETER, which creates a voltage output that is proportional to the incoming solar radiation. Due to its well design of housing, the fully cosine-corrected miniature head provides the silicon photodiode detector an accurate and consistent measurement under all weather conditions.

E20 Specifications

| | |
|-----------------------|--|
| Sensitivity | : Typical $33 \mu \text{ V/W/m}^2$ |
| Linearity | : Maximum deviation of 1% from 0 to 3000 W/m^2 |
| Non-stability | : 1% change per year |
| Accuracy | : $\pm 3\%$ |
| Spectral range | : 400 - 1100nm |
| Response time | : Typical 3us |
| Operating Environment | : -25 to +85 ; 0 to 100% relative humidity |