

## **SOLAR RADIATION SENSOR types 7821 and 6450**

### SPECIFICATIONS

Operating Temperature.....-40° to 65° C  
Sensor Type.....Silicon photodiode with integrated amplifier  
Spectral Range (10% points).....400 to 1100 nanometers  
Cosine Response:  
Percent of Reading.....3% (0° to +/- 70° incident angle), +/- 10% to +/- 85°  
Percent of Full Scale.....2% (0° to :90°)  
Attached Cable Length.....12 m  
Cable Type.....4-conductor, 26 AWG  
Connector.....open wires or Modular connector (RJ- 11)  
Recommended Maximum Cable Length.....38 m  
Housing Material.....UV-resistant plastic II  
Dimensions.....51 mm x 70 mm x 57 mm)  
Weight.....340g

#### Connections:

Yellow.....Output (0 to +3VDC); 1.67 mV per W/m<sup>2</sup>  
Red & Green.....Ground  
Black.....+5V DC +/- 10%, current 3mA (typical if not used in switched application) **6450**: 3V supply  
Temperature Coefficient.....- 0.063% per degree C

