

Designers and Manufacturers of Quality Scientific Instrumentation Since 1985.

Mission Statement: "To serve the New Product Development market in the field of Optical Spectroscopy with dedication, integrity and excellence"

SCI425CMB0 Large Area Terahertz Detector

Sciencetech's proprietary wideband detector design comes packaged in our standard "hockey puck" enclosure (2" diameter x 1" high) and is connectorized to be powered directly from the Stanford SR-810/830 type lock-in amplifiers and optimized to utilize the full input range of these lock-ins for FTIR applications.

Features of our SCI425CMB0:

This detector is not hygroscopic and may be operated indefinitely under normal atmospheric conditions and at temperatures beyond 100°C. A selection of windows is available to limit spectral response.

Our current specifications for Sciencetech's SCI425CMB0: subject to change without notice)

Spectral range: (no window ,blackened): 100nm - 3mm
Element size: 5 mm dia.

NEP 6.6E-10 Watts
Responsivity: 16kV/W,
Input saturation: 85E-6 Watts

Damage threshold: 1 Watt (5 W/cm^2)

Output offset: +/- 1 mV (typical, 25° C)

Output saturation: +/- 1.4 V(Stanford overload lights before saturation)

Note: The response to long wavelengths has not been tested.

Power requirements: +/- 15 to +/- 24 volts max @ +/- 8 mA max. Power connections: (Connectorized for Stanford SR 510/810/830)

DB-9M Pins 2,3,4,5,9 no connection

+V In Pin 1
-V In Pin 6
Common Pin 7
Case GND Pin 8

<u>Head Office</u>: 1450 Global Drive - London - Ontario - Canada - N6N 1R3 - Tel. +1 519 644-0135 Fax. +1 519 644-0136 - <u>Sales Office</u>: 1920 Yonge St, Suite 200 - Toronto - Concord - Ontario - M4S 3E2 Phone: +1 416 572-7567; Fax. +1 416 572-7501

E-mail: sales@sciencetech-inc.com URL: www.sciencetech-inc.com