

Model 5728

Solar Radiation Shield

- Blocks Direct Sunlight
- Prevents Reflected Solar Radiation
- Reduces Temperature & Humidity Errors
- Low Thermal Conductivity



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DESCRIPTION:

The Model 5728-00 Solar Radiation Shield protects ambient temperature and relative humidity sensors from direct sunlight and reflected solar radiation. The shield actually improves the sampling of air by promoting smooth air flow past the sensor.

Ten white opaque molded plastic discs permit easy air passage through the shield while the unique disc profile provides a positive blockage of direct and reflected solar radiation. The thermoplastic disc material is specially formulated for maximum protection in harsh environments. This material provides high reflectivity, low thermal conductivity, and low heat retention.

The sensor is enclosed within the plastic disks of the shield. A support arm and mounting hardware is included for easy field installation and attaches to any vertical pipe, up to 2 in (5.08 cm) diameter.

SPECIFICATIONS:

Radiation Error

@ 1080 W/m² Intensity Dependent upon Wind Speed (ventilation rate):

6.7 mph (3 m/s)	0.7° F (0.4° C) rms
4.5 mph (2 m/s)	1.3° F (0.7° C) rms
2.2 mph (1 m/s)	2.7° F (1.5° C) rms

MaterialsMolded White Thermo Plastic UV Stabilized

Mounting..... V-Block and 2 in (5.08 cm) SS U-Bolt for Pipe 1 to 2 inch Dia.

Dimensions5.1 x 10.2 in (13 x 26 cm) (Dia x H)

Weight1.5 lb (0.7 kg)

Shipping Weight3 lb (1.4 kg)

ORDERING GUIDE:

Model 5728-00.....Radiation Shield; Includes 10 Plate Solar Radiation Shield, and Mounting Hardware

See www.highsierraelectronics.com for more specification and ordering information.

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Environmental Monitoring Solutions

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