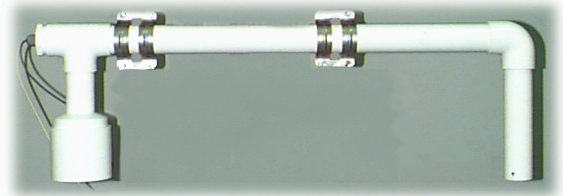


WEATHER

Motor-Aspirated Radiation Shield

Model 8190



Overview

The 8190 Series of Motor Aspirated Radiation Shields (MARS) provides protected mounting for temperature and humidity probes, shielding them from direct solar heating and contact with precipitation contact. These radiation shields are virtually maintenance-free, and are constructed of heavy-duty, non-corrosive polymer. They use a reliable, long-life 12 VDC fan for continuous aspiration. Each MARS accommodates one probe: a temperature probe, a humidity probe, or a combination temperature/humidity probe. All cable terminations to the MARS are made through weatherproof connectors mounted on the enclosure.

Features

- Virtually maintenance-free
- Heavy duty
- Reliable

Ordering Information

Part Number	Probes Supported
8190-01	Corrosion-Resistant MARS
8190-02	Corrosion-Resistant MARS for use with Model 5192 Temperature/Relative Humidity Probe
8190-03	Corrosion-Resistant MARS for use with Model 8522 frangible tower

Specifications

Parameter	Specification
Operating Temperature Range	-40°C to +55°C
Radiation Error	0.3°C (0.5°F) @ 12 VDC and 1000 W/m ² solar radiation
Air Flow	110 m/min (360 ft./min) @12 V DC
Fan Life	70,000 h @ 40°C
Supply Voltage	8–15 V DC, 180mA @12V

Dimensions & Weights

Size	107 cm × 35 cm × 15 cm (42" L × 13.5" H × 6" D)
Weight	4.6 kg (10 lb)
Shipping Dimensions	122 cm x 48.3 cm x 20.3 cm (48" x 19" x 8")
Shipping Weight	9.5 kg (21 lb)