OL IS-470-WP
Submersible Integrating Sphere Assembly

The OL IS-470-WP Submersible Sphere Assembly is a sealed, inch diameter integrating sphere suitable for underwater measurements up to a depth of 20 meters. The sphere uses a dual port design with a 90° port configuration, and contains an internal baffle before the exit port to permit only integrated light from exiting the sphere. Optical delivery to the OL 756 Optics Head is via an OL 730-7Q-WP Waterproof Fiber Optic Probe. The OL IS-470-WP and OL 730-7Q-WP assembly are usable over the 280nm to 1100nm wavelength range. The operating temperature range is -5°C (non-submersed) / 10°C to 50°C (submersed).

- Suitable for air and underwater measurements
- Maneuvers easily to required depths
- Suitable for down-dwelling and up-dwelling measurements
- Small shadow in up-welling measurements
- Can be supplied with long light guide to isolate spectroradiometer from harsh environments
- Reduce risk of damage and loss of spectroradiometer
- High accuracy cosine correction over wide spectral range
- Supplied with immersion effect factors
- High stability

A submerged OL IS-470-WP connected via OL 730-7Q-WP waterproof fiber optic to an OL 756 Portable Spectroradiometer on the surface.

SPECIFICATIONS
Product Datasheet B138 - Revision 12/04

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As part of our policy of continuous product improvement, we reserve the right to change specifications at any time.

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Internal Sphere Diameter .................................................................................................... 4 inches (10.16 cm)
Fiber Optic Light Guide Length ......................................................................................... up to 20 meters (65 feet)
Depth ................................................................................................................................. 20 meters (65 feet)
Weight .............................................................................................................................. 4 kg (9 lbs.)
Coating (Wavelength Range) .......................................................................................... 200 nm to 2500 nm
Coating: Pressed PTFE ................................................................................................. Average reflectance 99%
Dome Window (Wavelength Range) .............................................................................. 280 nm to 1100 nm
Dome Window Diameter ............................................................................................... 3.25 inches (8.25 cm)

Dimensions

Schematic

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