DIFFRACTION
ASTRONOMY + SCIENTIFIC IMAGING SOLUTIONS

Boltwood
Cloud Sensor III

Make the most of clear skies.

The newly-designed Boltwood Cloud Sensor III is the must-have weather monitoring device for astronomical observatories. Designed to protect your most valuable equipment from weather damage, the Boltwood Cloud Sensor III can sense wind, rain, and more while enabling automatic observation scheduling through your favourite observatory control applications.

ASCOM Alpaca

Powerful Sensor Technology
The primary sensors used for determining safe/unsafe observing conditions are cloud detection, rain detection, wind speed limits, and daylight. The user can also set limits on other parameters, including humidity, temperature, etc.

The Boltwood Cloud Sensor III will trigger a contact closure (relay) output when it detects adverse conditions. When connected to an observatory roof controller such as the MaxDome II system, this will cause the observatory to close. Note that this will not park your telescope or other equipment.

The Perfect Software
Many users use software to operate the observatory in response to the weather conditions. Diffraction Limited makes Cyanogen Imaging® MaxIm DL™ software, that includes a flexible observatory shutdown capability.

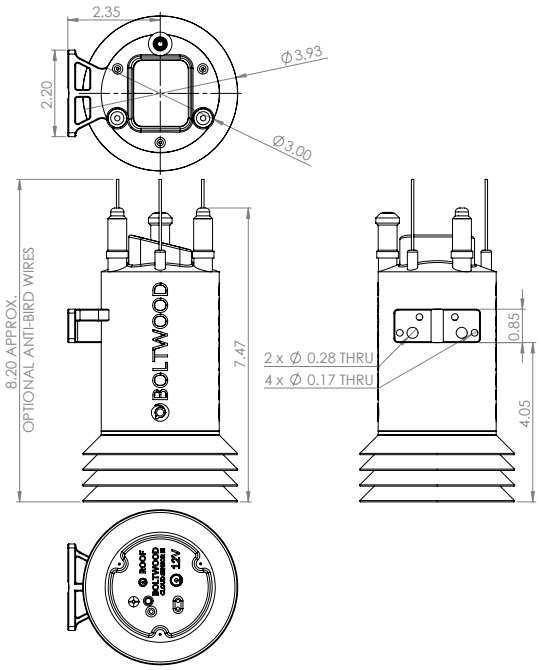
Connect Anywhere
Boltwood Cloud Sensor III communicates via a WiFi connection. It can operate as a WiFi hotspot or connect directly to your wireless network. It provides browser-based status and configuration screens. It also provides ASCOM Alpaca IObservingConditions and ISafetyMonitor interfaces, enabling direct access to sensor readings by ASCOM-compatible astronomical software packages.

Powered. Always.
The sensor operates from a 10.5V to 24V DC power source, making it compatible with 12V solar-charged battery systems. A universal AC adapter and extension cable comes standard to connect with available central power locations.

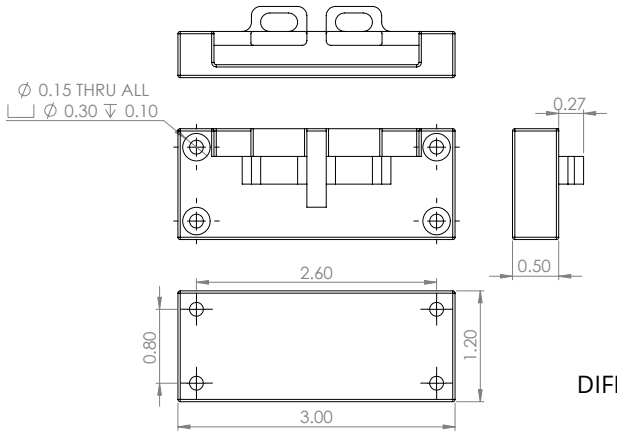
The sensor detects:
- Clouds
- Rain Drops
- Wet snow
- Wind Speed
- Temperature
- Humidity
- Dew Point
- Barometric Pressure
- Daylight
- Input Voltage

Boltwood Cloud Sensor III

TECHNICAL SPECIFICATIONS	
DC Input Power	10.5VDC to 24VDC, 1A Maximum
AC Adapter	100VAC to 250VAC, 50/60 Hz
Power Connector	Barrel style, 2.5 mm ID, 5.5 mm OD, unpolarized
Roof Close Connector	Barrel style, 1.3 mm ID, 3.5 mm OD, unpolarized
Roof Close Circuit Rating	12V, 1A
WiFi Communications	IEEE802.11b/g/n
Center Frequency Range	2412 ~ 2484 MHz
Country Policy	Automatic configuration based on network station



Quick Mount Adapter



SBIG® IMAGING SYSTEMS

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Preliminary Specifications – Subject to change without notice – March 2022