ColorSensor Owner's Manual

Thread Bioscience, INC.

ColorSensor Fluid Hue Monitoring System

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Introduction

Thank you for selecting Thread Bioscience, Inc. for your equipment needs. For maximized product performance and ease of use please proceed as follows:

1. Inspect the carton and unit for shipping damage. Notify the carrier immediately if damage is found.

2. Use the “Accessory Checklist” when unpacking to verify that all parts of the unit have been received. Do not discard packing materials until everything has been accounted for.

3. Read this operation Manual thoroughly before deciding on an appropriate location for the unit. You must consider the availability of power and other equipment requirements, as well as user convenience in operation.

4. Carefully follow directions in the “Installation” section of the manual.

5. Insist that each operator be familiar with the “Operating Procedures” section of this manual.

6. Follow the required preventive maintenance schedule for long equipment life.

7. Keep this manual in a safe location for ready reference to the “Operations Procedures” and “Maintenance” sections when needed.

Contents

Model Description (1)

The ColorSensor devices are designed to be used in combination with the Thread Bioscience SentiLiter device and corresponding app. This device remotely monitors the color of fluid flowing through a catheter tube and gives readings based on how dark and how red the fluid is. That data is then displayed in the app with the patient it is paired to so the medical staff assigned to them can make any necessary decisions based on the data.

Unit Specifications (2)

Overall Dimensions and Materials of Construction

The overall dimensions are listed below. The materials of construction for the ColorSensor device are ABS plastic (case body), and stainless steel (machined parts).

ColorSensor
2” W x 2” H x 3” D
(5.1 cm W x 5.1 cm H x 7.6 cm D)

Electrical Requirements

All electrical parts are UL listed/approved. The ColorSensor operates on an internal 3.8 volt rechargeable battery. The ColorSensor also comes with a USB-C power cable and outlet adapter for charging purposes. The device can be charged by a power source of 110 to 240 VAC (50-60 Hz). Power consumption of the ColorSensor is 0 when not charging and less than 10 watts when plugged in and charging.

Suggested Cleaning

General cleaning of the outside of the device is recommended after use. See the “Maintenance” section for further recommendations and procedures

Shipping Weight

The shipping weight of the ColorSensor is approximately 0.15 lbs/0.07 kg.

Installation (3)

The ColorSensor should be gently pushed open and attached around a tube that will have liquid flowing through it. Place the device in any orientation you desire, but it is recommended that you find a low point on the tube that will have as constant of a liquid flow as possible for best results. You will know the device is taking measurements if the lights inside the clamp around the tube are on.

Use a power source easily accessible to the unit to avoid stretching the power cord. If desired you may keep the ColorSensor device plugged in while in use.

Operating Procedures (4)

1. Unpacking and Assembly

The ColorSensor contains the ColorSensor unit, USB-C charger cable, and charger power adapter.

2. Power Requirements

The ColorSensor is supplied with a 2 prong, 5 volt charger power adapter and cable unit that requires a power source of 110 to 240 VAC (50-60 Hz). This unit can be plugged into a normal wall outlet and then plugged into the power supply port on the ColorSensor.

3. Powering the Unit On/Off

The ColorSensor device is turned on when you open the clamp. You will know the device is on and taking measurements by the lights inside the clamp being on and visible. To turn the device off you close the clamp completely and should see the lights turn off indicating it is no longer taking readings.

4. Pairing a ColorSensor and Base Station

To pair these devices together all you need to do is make sure both devices are turned on and in range of one another and they will pair automatically. We recommend at least 1 Base Station device for every 20 ColorSensor devices in use.

Maintenance (5)

Maintenance Recommendations

You may clean the ColorSensor device while it is plugged in and powered on.

General cleaning of the outside case is recommended after each use. Use isopropyl alcohol and a clean rag or alcohol wipes to clean all surfaces of the outside case of the device.

Preventive Maintenance Schedule

Following the preventive maintenance schedule will help ensure that CultureStat continues to function properly and that there are no unintended interruptions in service from the unit.

This device can run 24 hours a day without having to be powered off.

At minimum the device should be thoroughly wiped down and cleaned each day, but several times a day is recommended for sanitary purposes in a medical environment.

Troubleshooting Guide (6)

Problem	Possible Causes
Device is not powering on	Unit is not charged and/or not plugged in to a proper wall outlet Charging unit/cord is not properly plugged into device
Device is not sending readings	Device may not be in range of SentiLiter Base Station Device may not be placed in a location that has enough liquid flow