



SSI Sensor / Scheduler Interface - **Part# C156.273**

SSI+ Sensor / Scheduler Interface with Glare Control - **Part# C156.304**

Overview - SSI and SSI+ Comparison

SSI - C156.272



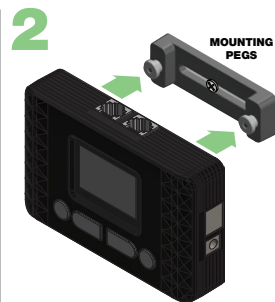
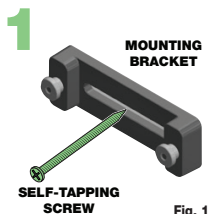
SSI+ - C156.304



Section 1 - Mounting to Structure

Determine mounting location of Sensor / Schedule Interface and mark on wall or ceiling.

1. Locate Mounting Bracket and provided mounting hardware (see Fig. 1).
2. Line up mounting holes on the back of Sensor/Scheduler Interface with mounting pegs on mounting bracket.

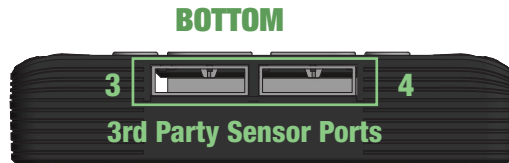
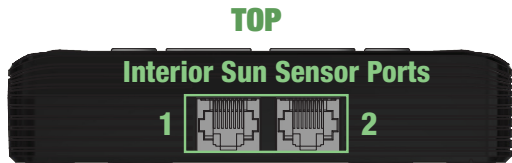


Section 2 - Wiring Sensors

The Sensor 1 and Sensor 2 ports are used to connect to the Draper Interior Sun Sensor (C156.282) directly.


Please note: Other Draper sensors or 3rd party sensors can be connected to Sensor Ports 1 & 2 using the SSI RJ45 port adapter (C103.154).

The Sensor 3 and Sensor 4 ports are used to connect other Draper and 3rd party sensors. Refer to the sensor documentation for wiring details.



Section 3 - Main Screen

The main screen shows the current date and time, as well as the current readings for each configured sensor.

You can press the  to access the Configuration Menu.

```

May 8 10:16PM
Not Set
Name VV.V UNIT (Units depend on the sensor type)
Name VV.V UNIT
Name VV.V UNIT
Configuration
  
```

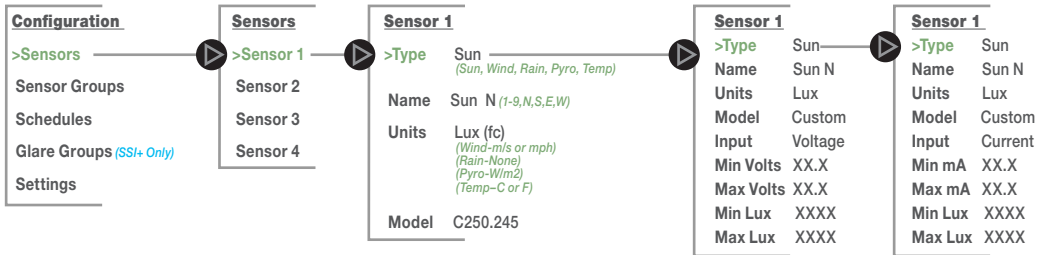
Section 4 - Configuration Menu

Section 4.1 - Sensors

The sensor configuration menu allows for the configuration of each of the four sensor ports.

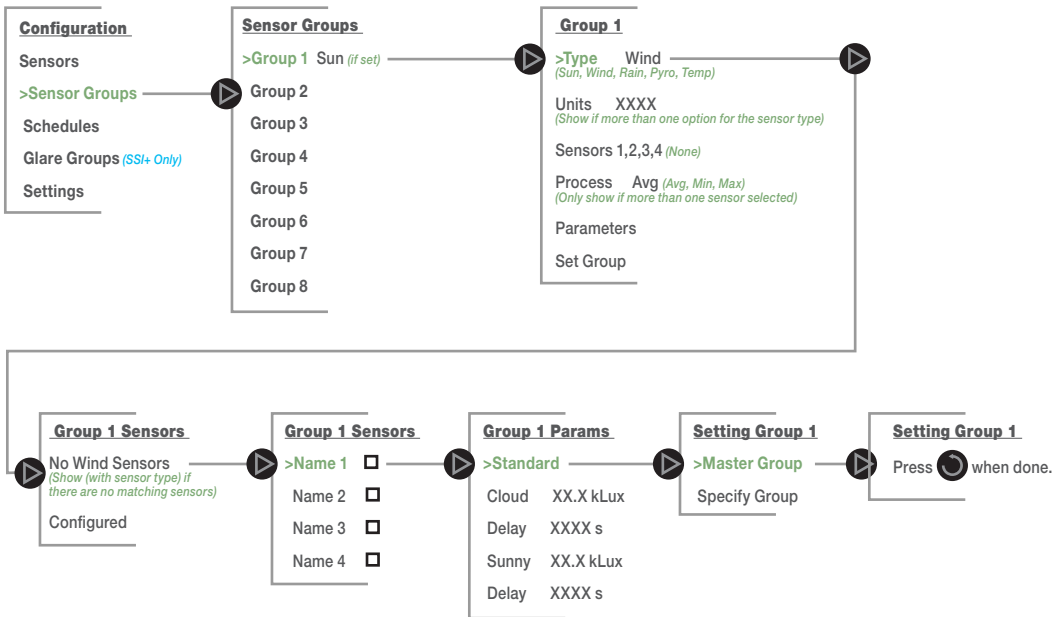
The type of sensor, sensor name, measurement units and model number are all set as shown below.

The “Custom” model number allows 3rd party sensor to be used. The measurement range will be entered as specified by the sensor manufacturer.



Section 4.2 - Sensor Groups

The sensor group configuration menu allows for the programming of up to eight sensor groups. Each group can be configured to use any number of the same type of sensor to control a group of shades. See sections 4.5-4.8 for a description of the control options for each sensor type.

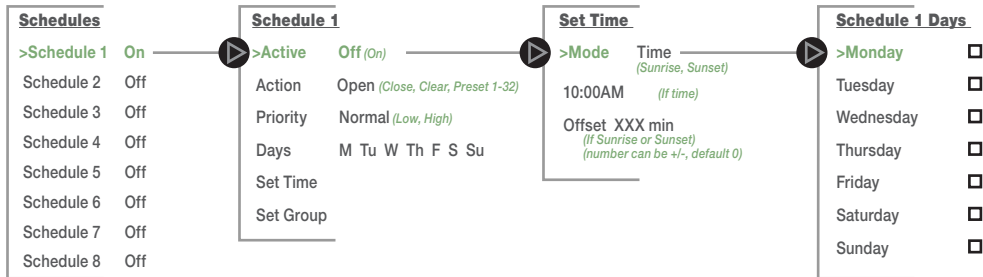


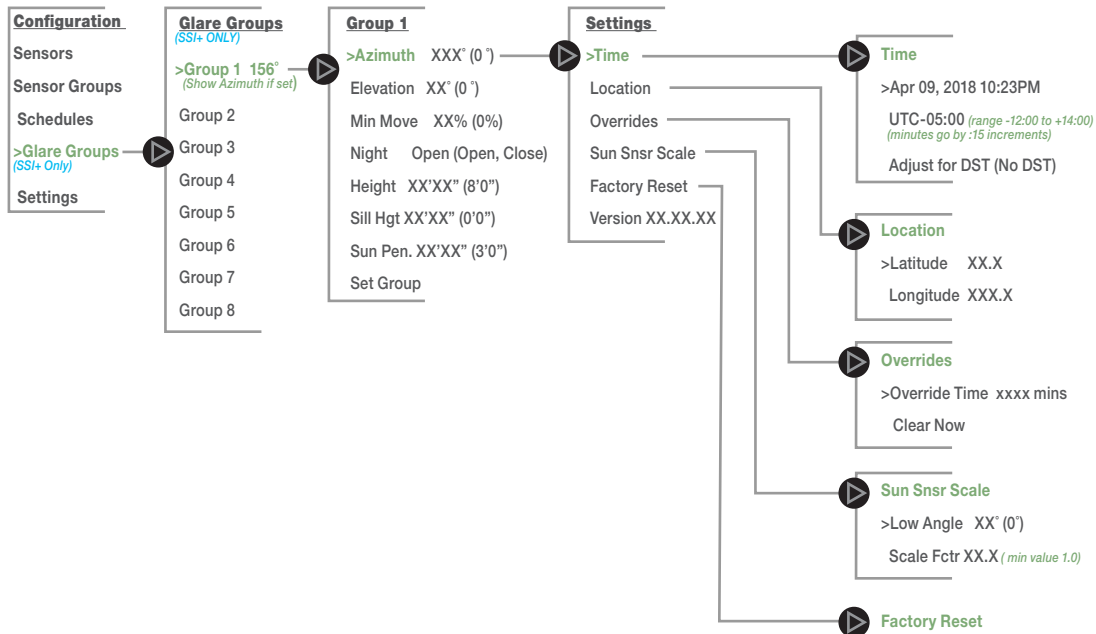
Section 4.3 - Schedules

The schedule configuration menu allows for the programming of up to eight scheduled events.

Each scheduled action can override a group of shades at a specified time, or a time relative to sunrise or sunset.

Three priority levels allow schedules to work correctly with other control elements in the system.



Section 4.4 - Glare Groups (*SSI+ ONLY*)

Section 4.5 - Sun Sensor Parameters - Priority 10 / Pyranometer Parameters - Priority 10

If the level goes below Cloud for the Up Delay time, then open the shades.

If it goes above the Cloud level for the Dn Delay time, then fully close the shades.

Group 1 Params

>Auto Control

Threshold	XX.X kLux (<i>XXX%</i>)
Cloudy Delay	XXXX s (<i>default 900s</i>)
Sunny Delay	XXXX s (<i>default 5s</i>)

If the level goes above the Sunny Override for the delay time, then close the shades.

If it goes below the Cloudy level for the delay time, then clear the override at that priority.

Sunny always has to be >= Cloud.

Group 1 Params

>Override Closed

Cloud	XX.X kLux
Delay	XXXX s
Sunny	XX.X kLux
Delay	XXXX s

If the level goes below the Cloud Override for the delay time, then open the shades.

If it goes above the Sunny level for the delay time, then clear the override at that priority.

Sunny always has to be >= Cloud.

Group 1 Params

>Override Open

Cloud	XX.X kLux
Delay	XXXX s
Sunny	XX.X kLux
Delay	XXXX s

Tries to keep the sensor level in a certain range.

If the level goes below the low level for more than the delay time, then open the shade when the average of Low and High level is reached.

If the level goes above the high level for more than the delay time, then close the shade when the average of Low and High level is reached.

If Pset Pause (Preset Pause) is > 0, then the shades will move a preset at a time, then wait for that amount of time before moving again.

This gives the sensor time to respond to the new light level if the shade moves quickly.

This moves the shades to the preset stop based on the sensor level.

Up Delay is how long to wait after it goes below a threshold before moving to the shade up.

Dn Delay is how long to wait after it goes above a threshold before moving the shade down.

If a preset value is set to 0 (the default) then that and all later values are ignored.

Once they move it from 0 Lux then it should start at the previous preset and only have a value that is higher.

If the level goes below Threshold for the Delay time, then close the shades.

If it goes above the threshold for the Delay time then fully open the shades.

Group 1 Params

>Range Control

Low XXX.X kLux

Delay XXXX s

High XXX.X kLux

Delay XXXX s

Pset Pause XXXs

Group 1 Params

>Preset Control

Up Delay XXXX s

Dn Delay XXXX s

Pst 1 XXX.X kLux

Pst 2 XXX.X kLux

Pst 3 XXX.X kLux

Pst 4 XXX.X kLux

Pst 5 XXX.X kLux

Pst 6 XXX.X kLux

Pst 7 XXX.X kLux

Pst 8 XXX.X kLux

Group 1 Param

>Privacy

Threshold XX.X kLux (XXX%) (default 500 Lux or 5%)

Delay XXXX s (default 30s)

Section 4.6 - Rain Sensor Parameters - Priority 5

If it detects rain for the Rain Dly time then open the shades.

If it doesn't detect rain for the Clear Dly time then clear the override.

If it detects rain for the Rain Dly time then close the shades.

If it doesn't detect rain for the Clear Dly time then clear the override.

Group 1 Params

>Override Open

Rain Dly XXX s

Clear Dly XXX s

Group 1 Params

>Override Closed

Rain Dly XXX s

Clear Dly XXX s

Section 4.7 - Wind Sensor Parameters - Priority 5

If the wind reading goes above Tilt for the Wind Dly (Wind Delay) then tilt open the shades.

If the wind reading goes above Open for the Wind Dly then retract shades.

If it goes below the Tilt for the Calm Dly then clear the override.

Tilt <= Open.

Group 1 Params

>Override Tilt

Tilt XX.X m/s

Open XX.X m/s

Wind Dly XXXX s

Calm Dly XXXX s

Section 4.8 - Temperature Sensor Parameters - Priority 10

If the temperature goes above the threshold for the hot delay time, then open the shades.

If it goes below the threshold for the cold delay time then clear the override at that priority.

If the temperature goes above the threshold for the hot delay time, then close the shades.

If it goes below the threshold for the cold delay time then clear the override at that priority.

If the temperature goes above the threshold for the hot delay time, then stop the shades.

If it goes below the threshold for the cold delay time then clear the override at that priority.

If the inside temperature goes above the threshold and is above the Outside temperature, for the hot delay time, then open the shades.

If the inside temperature goes below the threshold or is below than the outside temperature, for the cold delay time then close the shades.

Group 1 Params

>Override Open

Threshld XX.X C

Hot Dly XXXX s

Cld Dly XXXX s

Group 1 Params

>Override Closed

Threshld XX.X C

Hot Dly XXXX s

Cld Dly XXXX s

Group 1 Params

>Override Stop

Threshld XX.X C

Hot Dly XXXX s

Cld Dly XXXX s

Group 1 Params

>Vent Control

Outside Sensor XXXXXXXXXXXXX

Threshld XX.X C

Hot Dly XXXX s

Cld Dly XXXX s



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