



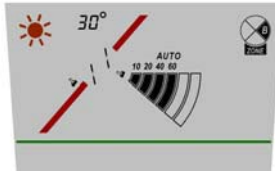
IntelSun® —Controlled Daylighting

Automatic Wall Controller (AWC)

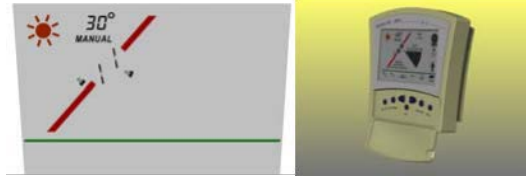
Technical Data Sheet



AWC LCD – Automatic Mode



AWC LCD – Manual Mode



Several types of IntelSun® Wall Controllers are available: Automatic, Manual, and Single Zone Manual Wall Controller. Of these the IntelSun® Automatic Wall Controller (AWC) is the most commonly employed. The AWC features a multi-function keypad and easy-to-read LCD screen.

AWC Functional Description

The AWC consists of an LCD screen and a keypad of control buttons. It can be set to operate in either a *Manual* or *Automatic* mode.

f In the Automatic mode the user defines desired room lighting (level).

Once set in the Automatic mode, the IntelSun® logic keeps the settings based on the Sun and Room Sensors.

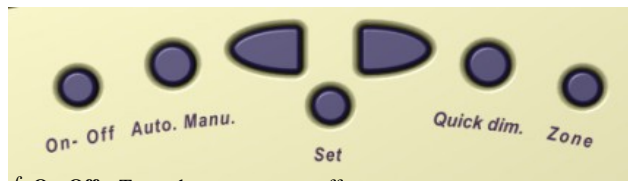
f In the Manual mode the user directly sets the SolaBlade® angles and daylight level.

Up to 4 Zones and 4 Branches can be controlled by a single controller.

The AWC communicates with the Glazing Panels and is powered by a CAN Bus via a Cat 5 cable with an RJ45 connector.

AWC Keypad

The following are the functional definitions for the IntelSun® Automatic Wall Controller keypad buttons:



f **On-Off** – Turns the system on or off.

f **Auto. Manu.** – Toggles the system between the Automatic and the Manual modes.

f **Left Rotation** – Rotates the SolaBlade® angle setting in a counter-clockwise direction in the Manual mode, or presets the desired room light level in the Automatic mode.

f **Right Rotation** – Rotates the SolaBlade® angle setting in a clockwise direction in the Manual mode, or presets the desired room light level in the Automatic mode.

Simultaneously pressing both the **Left Rotation** and **Right Rotation** buttons for over 3 or 6 seconds puts the system into a Quick or Full mapping session, respectively. The mapping includes scanning and registration of all system devices and their relation to Branch and/or Zones.

f **Quick dim.** – For quick room darkening - toggles between temporarily shutting the SolaBlade® and opening them. (The SolaBlade® will recover to the angle at which they were when the button was initially pressed.)

f **Zone** – For multi-Zone systems selects the Zone which the Wall Controller displays and to which the settings are to be applied. Pressing this button cycles between the 4 Zones (or Branches).

f **Set** – Used in conjunction with the Left and Right Rotation buttons, enables the presetting of optional functions and monitoring.

Pressing the **Set** button simultaneously with the **Right Rotation** button locks the AWC controls to prevent inadvertent changes. Pressing the **Set** button simultaneously with the **Left Rotation** button releases AWC controls.

Pressing the **Set** button for 3 seconds puts the system into the Test mode.

AWC LCD Elements

The elements that can be displayed on the AWC LCD are:



The Daylighting bar appears only in the Automatic mode, it indicates the user setting for the desired room light level on a scale of 10-100.



Digital display of the SolaBlades® actual angle.

Note: In the Manual mode, the word **MANUAL** appears under it to indicate that the AWC is in the Manual mode.



Indicates the SolaBlades® actual angle.



Indicates the Zone (Branch) to which the settings apply.



Indicates that the current Zone is set to Dim mode, i.e., the **Quick dim.** button has been pressed and the SolaBlade® are positioned to 0°.



Indicates that the AWC controls are locked.



Appears twice: above the SolaBlade® angle symbol it indicates that the Sun Sensor is operational; below the SolaBlade® angle symbol it indicates that the Room Sensor is operational.



Indicates that the **Occupancy Sensor Input** is active and controlling the lighting.

The Occupancy Sensor Input is an input for an external Person-in-Room Occupancy device (commercially available – not part of the system).



Indicates **E-Light Relay** is operational.

The E-Light (Electric Light) Relay is part of the Zone unit component and delivers a dry contact to close artificial light circuit.



Indicates that the IntelSun® system is being controlled by an external computer.



Indicates that the SolaBlades® are angled such that direct sunlight is entering.



Indicates that the SolaBlades® are angled such that diffused sunlight is entering.



Indicates that the IntelSun® system is in the Test mode.



Indicates left or right sunrise direction for initial system preset (per Zone).

In addition, there are three text messages that can appear:

EXT. ANALOG CONTROL - External Analog Louver Positioning is active.

MAPPING - Appears illuminated steadily or flashing depending on if the system is in either a Full or Quick Mapping session, respectively.

AWC External Connections

The AWC has the following optional external connections:

f CAN Bus – 2 x RJ45 connectors in parallel (hardwired)

f PC – RS 232 port (RJ45 connector for connecting an external computer)

f RJ12 - 2 connectors for Occupancy sensor and External 0-10Vdc control

Additional Information

Additional information may be obtained from:

CPI Daylighting Inc,

28662 Ballard Drive, Lake Forest IL 60045, USA

