

Series SC-9180

Easy DDC Room Command Module

Introduction

The room command module SC-9180 with LCD display is designed for use with the SC-9100 series *Easy* DDC controller.

A Key pad and LCD display on the front of the module allow the room occupant to view and change the operating parameters of the connected SC-9100 controller.

In addition, an occupancy button enables the occupant to change the mode operation of the controller from "COMFORT" to "STANDBY" or to request a temporary "COMFORT" during "NIGHT" operation. The current operating mode is shown by an LED indicator.



Series SC-9180 room command module

Features and Benefits

<input type="checkbox"/> LCD display with decimal point	Accurate reading of temperature and setpoint
<input type="checkbox"/> Temperature and setpoint reading	Accessibility of SC-9100 parameters from a remote location
<input type="checkbox"/> Weekly scheduling	Operating cost savings
<input type="checkbox"/> Occupancy button	Accessibility of the SC-9100 operating mode from a remote location
<input type="checkbox"/> Clock back-up supply	Keep clock setting in case of power supply loss

Ordering data

SC-9180-□000-W

Displays

- 0 Room Temperature (sensor included)
- 1 SC-9100 AI3 temperature

Room command module in pure white enclosure.

Note: one extension cable (2.5 m) is included in the delivery.

Accessories

SC-9180-8900

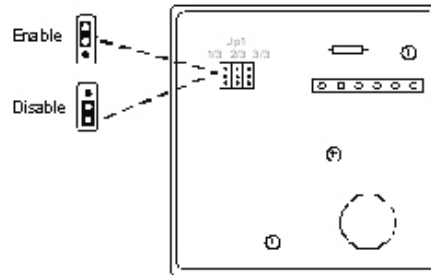
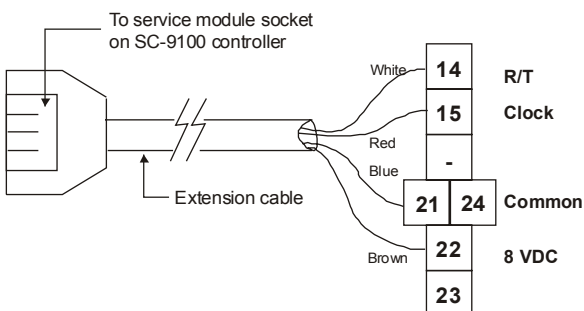
Extension cable (20 m) between SC-9100 and SC-9180.

Application

Located on the front of the room command module are a keypad with four keys ∇ (decrease), Δ (increase), SET, and ESC, and a LCD display with four digits and various operating mode symbols. Through the local bus connecting the module to the SC-9100 controller, the room occupant can use the keypad to perform the following functions:

- View/set the real time clock (accessibility depending on jumper 1/3).
- View the room temperature, and manually override the current temperature setpoint.
- Manually override the operating mode of the controller.
- View/define a weekly schedule for time programmed operating mode change (accessibility depending on jumper 3/3).

Wiring Diagram

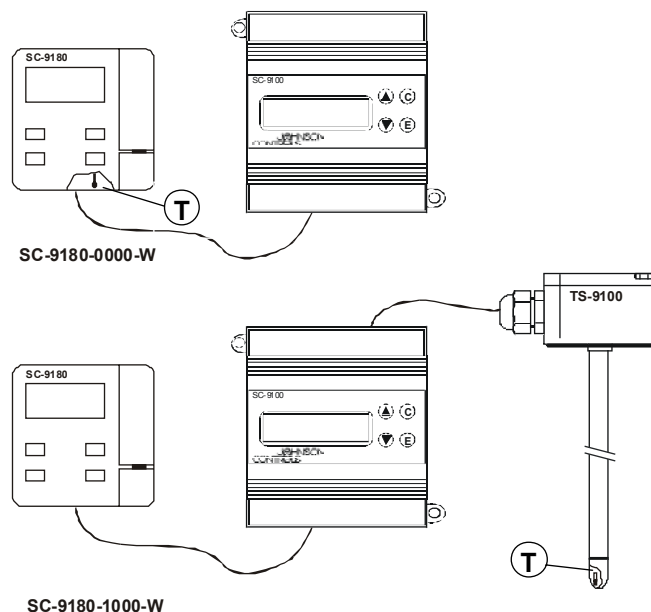


Rear of Command Module cover

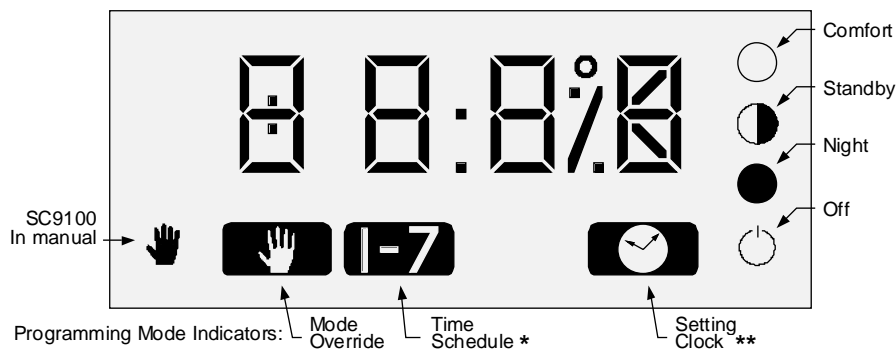
Jumper	Position	Function
Jumper 1/3		Real time clock set enable
		Real time clock set disable
Jumper 2/3		Remote set point reset -5...+5k
		Remote set point 12...28°C
Jumper 3/3		Weekly schedule set enable
		Weekly schedule set disable

Figure 1: Jumper settings and Functions

Temperature Input (T)



Operation



* Settings depending on jumper 3/3

** Settings depending on jumper 1/3

Figure 2: Symbols on the LCD Display

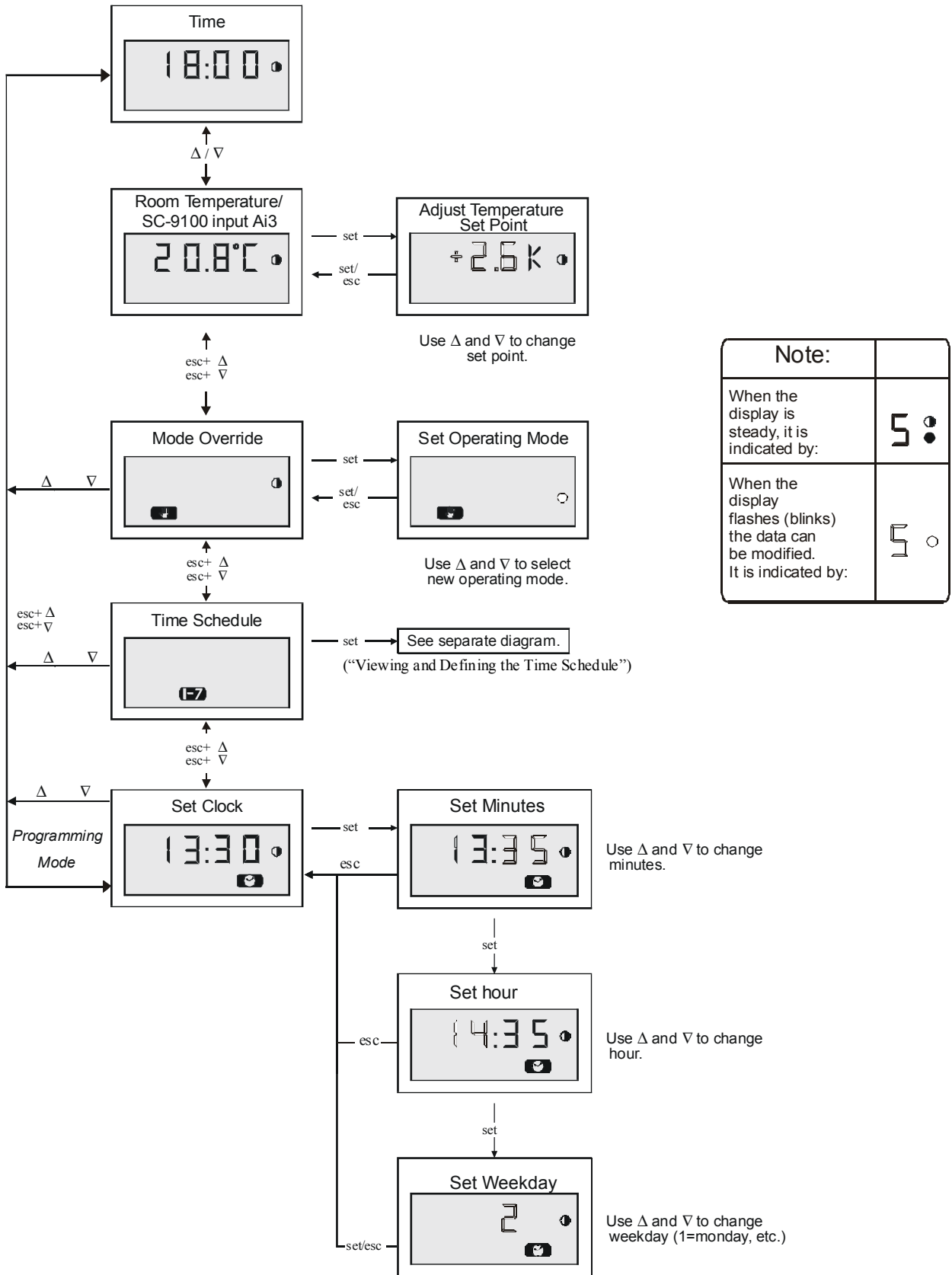
Symbol	Description
	Manual: Flashes if the operating mode of the SC-9100 has been set manually;
	Comfort: SC-9100 is operating in comfort mode. (In programming mode, indicates the selection of comfort mode.)
	Standby: SC-9100 is operating in standby mode. (In programming mode, indicates the selection of standby mode.)
	Night: SC-9100 is operating in night mode. (In programming mode, indicates the selection of night mode.)
	Off: SC-9100 is in off mode. (In programming mode, indicates the selection of off mode.)
	Mode Override: indicates that you have entered the operating mode override function.
	Time Schedule: indicates that you have entered the time scheduling function.
	Set Clock: indicates that you have entered the function for setting the real-time clock.

Figure 3: Legend of Symbols on the LCD Display

Key	Description
Δ and ∇	Used to scroll up and down through the parameters in view mode. Also used to increase or decrease the displayed value when it is being changed or overridden (value flashing after pressing set). When the key is held down, the value changes faster after a short delay.
set	Used to begin setting the displayed parameter or group of parameters, and to confirm the parameter change after it has been set.
esc	Used to leave programming mode, and to cancel a parameter change.
esc + Δ and esc + ∇	Used to scroll up and down through the parameters in programming mode.

Figure 4: Table of Keypad Usage

Figure 5: View- and Programming Mode Parameters



Note:	
When the display is steady, it is indicated by:	5 ●
When the display flashes (blinks) the data can be modified. It is indicated by:	5 ○

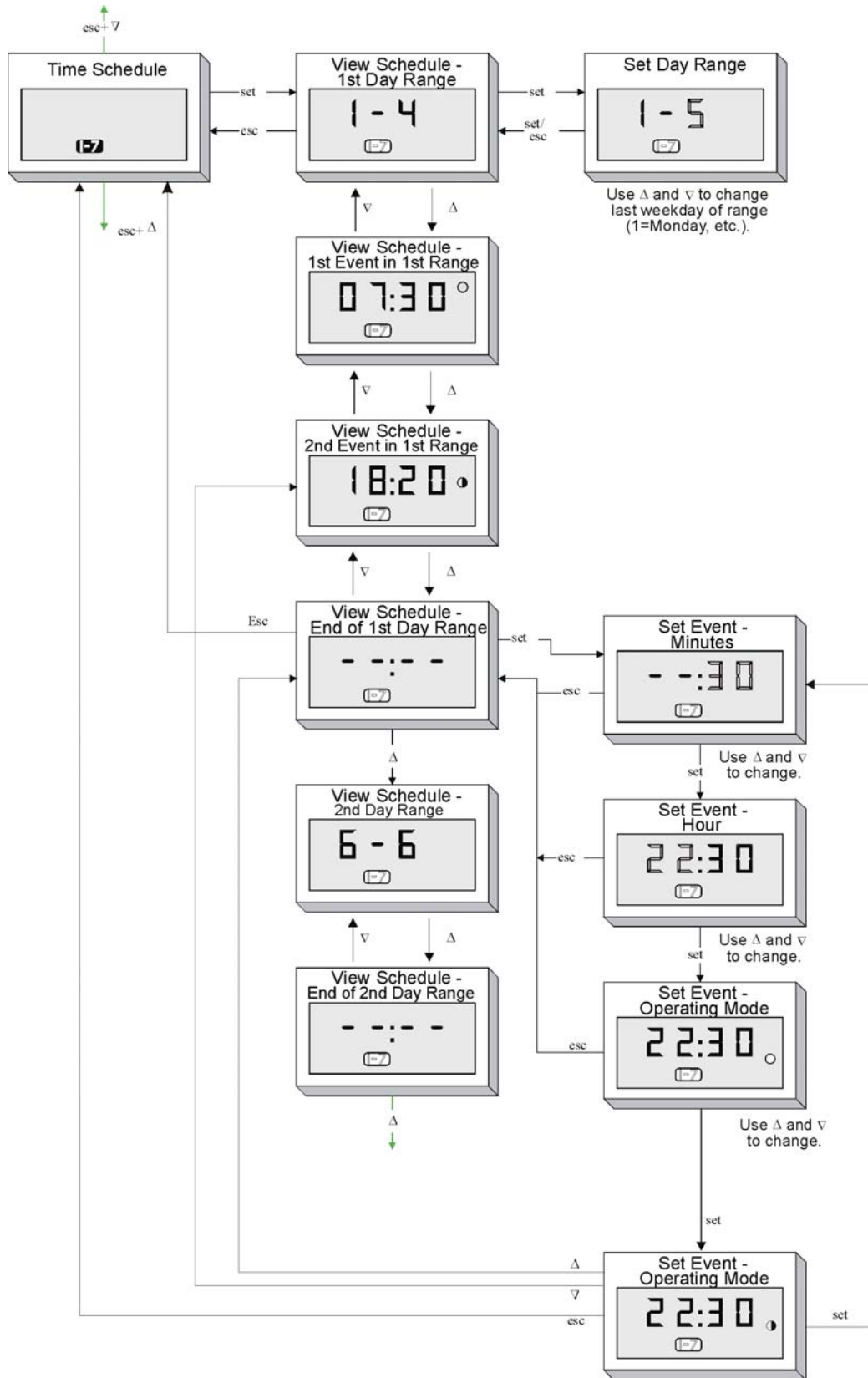


Figure 6: Viewing and Defining the Time Schedule

Dimensions (in mm)

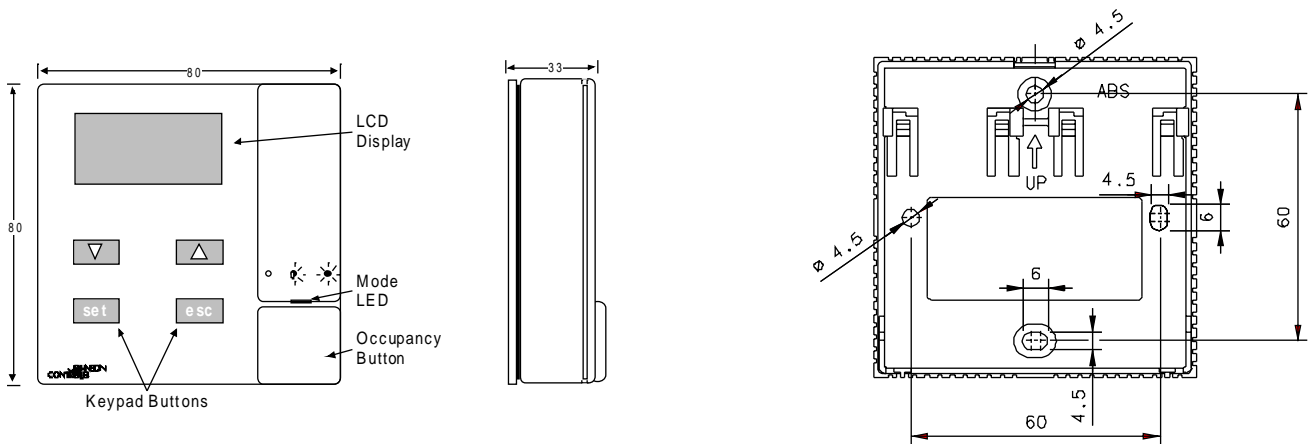


Figure 7: Room Command Module (dimensions in mm)

Specifications

Supply Voltage:	Power from SC-9100 Series Controller
Ambient Operating Conditions:	0 to 40°C 10 to 90% RH non condensing
Ambient Storage Conditions:	-20 to 70°C 10 to 90% RH non condensing
Terminations:	Terminal block in base for 1.5 mm ² /14 AWG (maximum) cable.
Temperature Sensor:	SC-9180-0000-W : NTC Thermistor 0 to 40°C; 30000 Ω at 25°C. SC-9180-1000-W : AI3 SC-9100 input
Display and Keypad:	LCD display with 4 digits and 8 symbols.
Occupancy Button:	Momentary contact to select alternate operating mode.
Mode Indicator:	Red LED to indicate COMFORT (LED ON), STANDBY (LED blinking), or NIGHT/OFF (LED OFF) mode.
Clock Back-up Supply:	Super capacitor for 15 hours without power supply.
Communications Interface:	Synchronous serial link, 600 baud.
Mounting:	Direct surface mount. Plastic base for surface mount recessed wall box-, and panel mounting kits. (see <i>Ordering Codes in product bulletin A4.1 "RS-9100"</i>).
Housing:	Material: ABS + polycarbonate, self-extinguishing VO UL94. Protection: IP30 (EN60529)
Dimensions (H x W x D):	80 mm x 80 mm x 33 mm
Shipping Weight:	0.15 kg
CE Compliance:	EMC (89/336 EEC) according to the standard EN 50081-1 and EN 50082-1

The performance specifications are nominal and conform to acceptable industry standards. For applications at conditions beyond these specifications, consult the local Johnson Controls office or representative. Johnson Controls shall not be liable for damages resulting from misapplication or misuse of its products.

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