Saflec Systems
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SSR-250-DKP
Touch display proximity reader

Revision 1.0 - (10 August, 2016)

Quick Start Guide

Introduction

The SSR-250-DKP is a 320x240 Colour LCD touchscreen display and proximity reader. It connects to the SDC controllers using an RS-485 network.

The proximity reader can read various transponder cards at the industry standard frequency of 125 kHz, including Hitag™ 1, Hitag™ 2 and HT4102. An additional option to support high frequency (13.5MHz) cards is available. It supports a Time and Attendance ON/OFF DUTY function (optionally enforced) and when using the keypad option, a “scramblepad” option is also available.

It includes a Piezo buzzer to indicate a successful card read, key presses and other statuses.

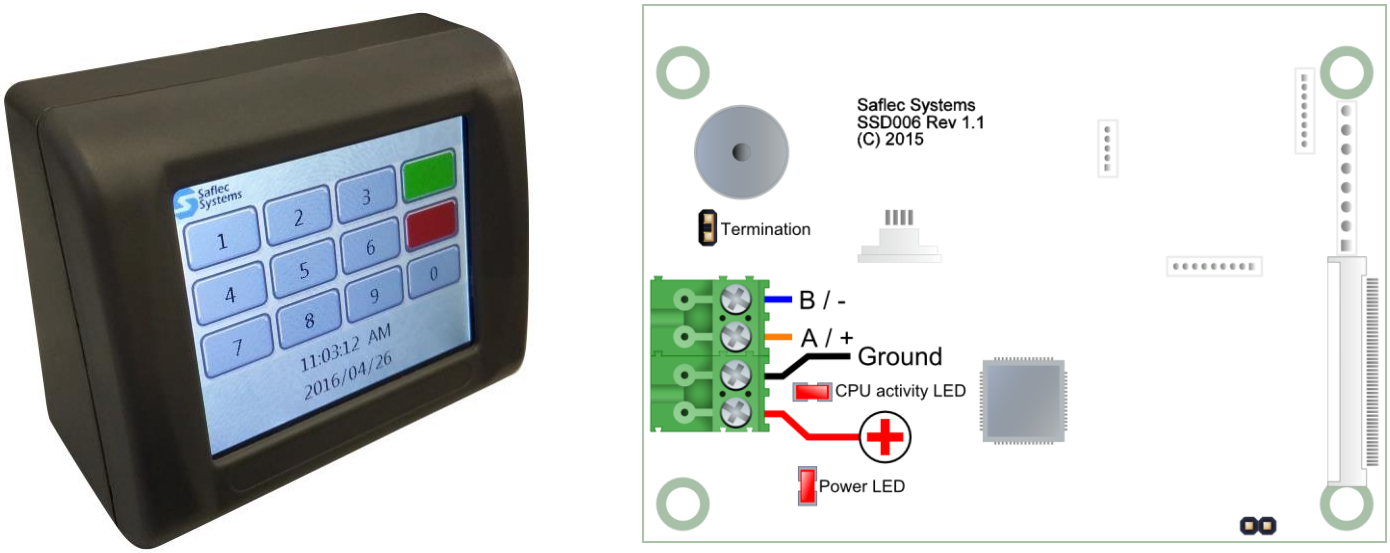


Figure 1
Display proximity reader with feature labels

Setup instructions

Step 1: Connect the reader network (See Fig 2)
Connect the RS-485 network to the SDC controller card and to any other readers or compatible devices (eg. SSR-201 / SSE-720 / SSI-300-W) on the line. Each device in the network will have a positive (A) and a negative (B) connector which connect to the corresponding line on the reader network. RS-485 connections are always made this way, so all RS-485 devices on the line will be wired in the same way.

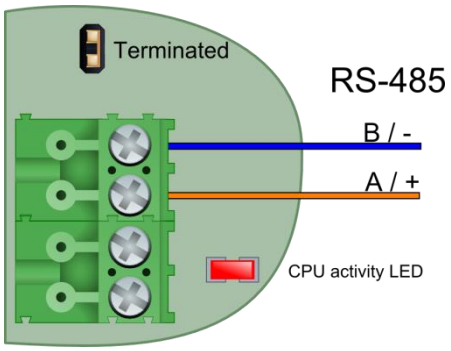


Figure 2
Connections to the controller network.

Step 2: Connect the power (See Fig 3)
Connect the reader to the power supply. In figure 3 the power is being drawn from the controller, however this is not necessary. You could have a separate power supply for the device, however it's recommended that the ground wire is still wired up with the signal cable as well as the power source.

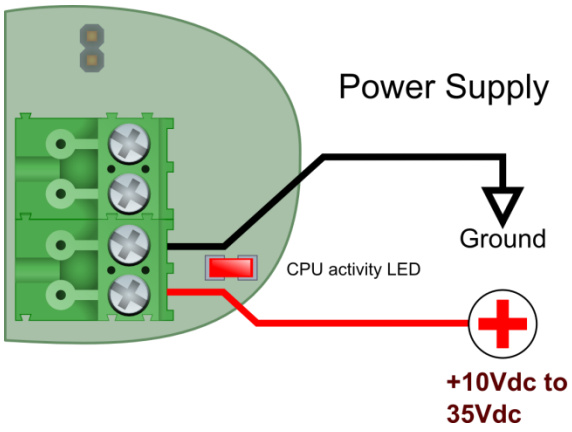


Figure 3
Connections to power.

Note: The power supply must be a 12 Volt DC power supply, capable of supplying 250mA. The reader can be powered from the master controller if the supply can deliver sufficient power.

When power is supplied to the reader the Piezo buzzer will sound and the LED will begin flashing. The display will flash 'Check host comms' until the controller connects. As soon as the date and time has been received from the controller it will start showing the date and time.

NOTE: Accessing of the configuration pages
To access the configuration remove power from the device, keep pressing the display's touch screen while it is powered up again. Keep the display pressed until the configuration page below is displayed.

Step 3: Setting network address (See Fig 4)
The SSR-250-DKP communicates with the master controller via a multi-drop RS-485 communications network. Each device on this network requires a unique address for communications and identification. Duplicate addresses will cause communication problems.
The address of this reader can be a number from 0 to F (0 to 15). This setting can be adjusted by accessing the address configuration page on the display.

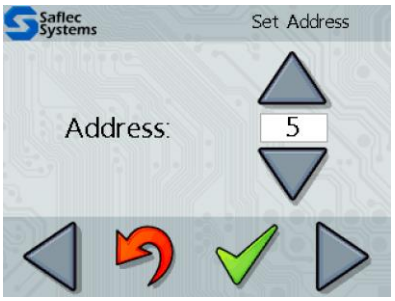
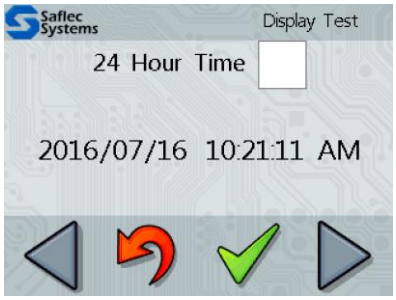


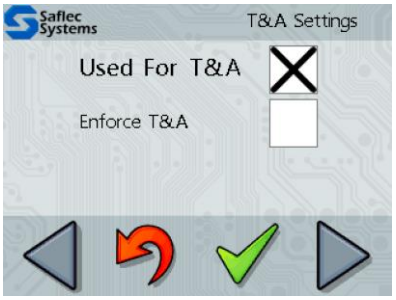
Figure 4
Address settings configuration page

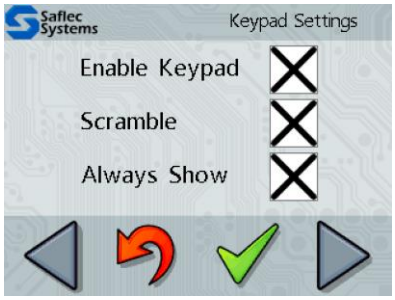
The address can be adjusted by pressing the up and down arrows. Once the correct address is chosen, the green tick is pressed to save the changes, the orange arrow will revert to the last saved settings.

Step 4: Configure the unit's behaviour (Optional)
Using the left and right buttons on the menu various options can be adjusted on the reader to suit the particular needs for the installation.
Options include:

Used for T&A: Enable the TA on duty/off duty option buttons on the display.
Enforce T&A selection: Force a TA direction to be chosen before accepting a PIN or card.
Enable Keypad: Enable the keypad for use on the display.
Scramble Keypad: Enable the scramble/randomise option for the keypad.
Always Show Keypad: Always show the keypad or display the default screen with a button to access the keypad. (Not available when used for T&A)
24 Hour Time: Set the clock to display 24 hour instead of 12 hour.
Set LCD Brightness: Drag the slider to adjust the brightness of the LCD display.







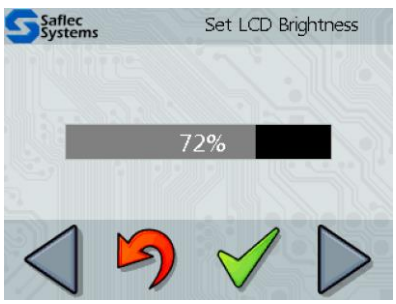


Figure 5
Some of the configuration pages

Step 5: Restart the unit to return to normal operation (See Fig 6)
This is the fourth setting or configuration page on the display. It is accessed after selecting the left arrow four times. The settings can be saved using the Green Tick or restored using the Orange Arrow before restarting the unit and resuming normal operation.

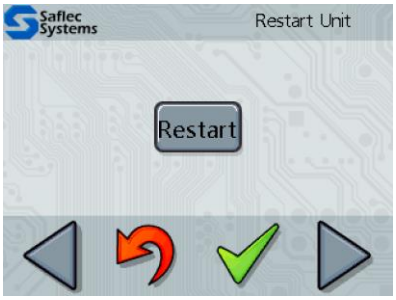


Figure 6
Restart page

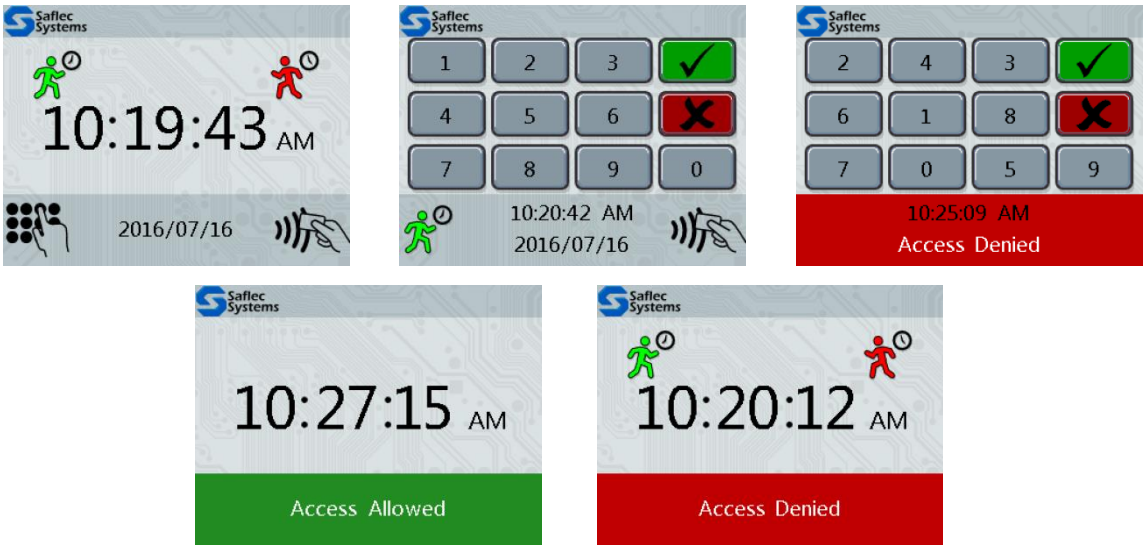


Figure 7
Various screens shown by the display during normal operation

Product specifications

Power requirements

Operating Voltage (DC)	11 to 24 Vdc
Maximum Current	150 mA

Environmental characteristics

Operating Temperature	0°C to +70°C
Storage Temperature	-20°C to +80°C