

SC-DAD SOFTWARE INTRO

The Sensor Connectivity Dad's web based operative system is very easy to use, you can access to it by a standard web browser.

The main page of the device allow you to access to the on-board user manual, view the device status and LAN/WI-FI configuration.

The screenshot shows the main page of the SC-DAD web software. At the top, there are navigation tabs: Main, Values Viewer, Inputs configuration, Network, and Tools. Below the tabs is the title "Sensor Connectivity - DAD" and a subtitle "Device configuration and management." The main content area is divided into two columns. The left column, titled "Device information", contains sections for "System Status" (Running OK, Status OK), "System date" (Wed Nov 17 09:53:59 CET 2010), and "System Configuration" (Lan Ip address: 192.168.1.92, Lan Subnet mask: 255.255.255.0, Lan Broadcast: 192.168.1.255, Wifi Ip address: 192.168.10.90, Wifi Subnet mask: 255.255.255.0, Wifi ESSID: 192.168.1.255, Gateway: 192.168.1.1, Dns Server: 192.168.1.1, Mac Address: 00:50:C2:6D:A2:00, Host name: SCDAD, Firmware version: v3.0). Below the configuration is a link "View the device manual". The right column, titled "Product info", contains a thank you message, a list of standard firmware features (web server, Modbus server, software upgrade/backup utility, Modbus .sic file generation utility), a note about configurable serial ports (rs232/rs485), and information about optional features (up to 16 galvanically isolated Analog and Digital Input). Below the text is an image of the SC-DAD device, a small grey box with a green terminal block. At the bottom right of the page, there is text: "By Techno Fittings S.r.l. http://www.technofittings.com".


(Main page of the Dad's web based software)

The Sensor Connectivity DAD integrates everything in a sophisticated web based operative system, the final user will need just a web browser to configure the device, view run-time values coming from sensors, read the device manual, upgrade the device, backup the software configuration of the device, export Modbus mapping for the Modbus client configuration, and much more.

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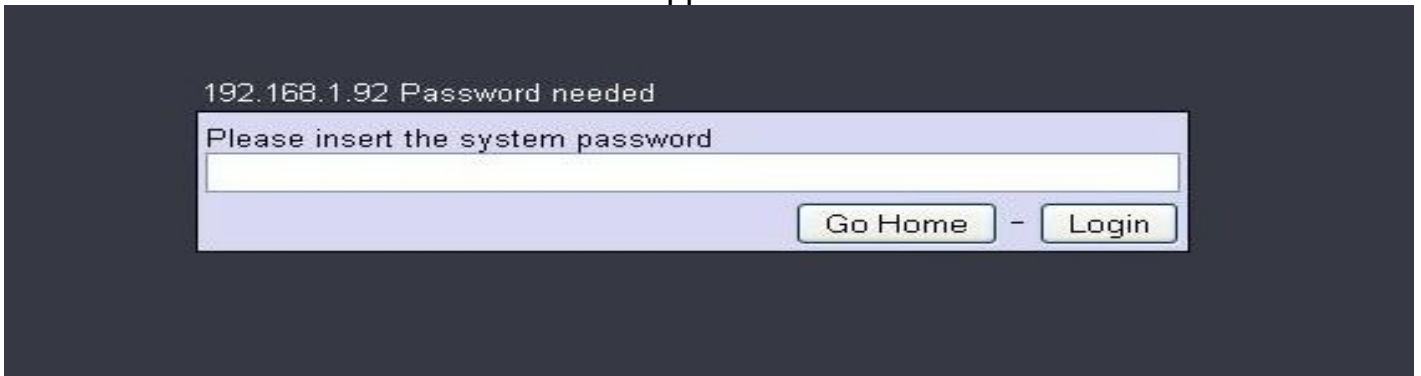
## User Manual - Sensor Connectivity - DAD

Device documentation.

Device Manual	Product info
<p><b>Getting started steps</b></p> <ol style="list-style-type: none"> <li>1)Change the default password</li> <li>2)Network settings configuration</li> <li>3)Set date and clock</li> <li>4)Reboot the device</li> </ol> <p><b>Configure analog inputs/data acquisition</b></p> <ul style="list-style-type: none"> <li>-Analog input configuration</li> <li>-How to connect analog inputs</li> <li>-Analog input calibration</li> <li>-Analog input data treatment plug-in</li> <li>-Serial input configuration</li> <li>-Configure the acquisition client (Modbus memory mapping table)</li> <li>-Sic file generator utility (for the fast fdc configuration)</li> </ul> <p><b>Values viewer utility</b></p> <ul style="list-style-type: none"> <li>-Real time values monitor</li> </ul> <p><b>Software update, system backup and network settings reset</b></p> <ul style="list-style-type: none"> <li>-How to create a system backup</li> <li>-How to upgrade/restore the software/configuration</li> <li>-How to change the network settings via usb key</li> <li>-How to upgrade/restore the software/configuration via usb key</li> </ul> <div style="text-align: center; margin-top: 10px;"><input type="button" value="Back"/></div>	<p>Thank you to have chosen our <b>Sensor Connectivity - DAD device</b></p> <p>The standard firmware provide: Web server, Modbus server on tcp/ip, software upgrade/backup utility, Modbus .sic file generation utility and much more.</p> <p>By standard are available 2 configurable rs232/rs485 serial port</p> <p>The device can be also equipped with: Up to 16 galvanically isolated Analog and Digital Input, and many other configurations.</p> <p>To get more information and check for firmware upgrades please visit the Sensor Connectivity web site.</p> <div style="text-align: center; margin-top: 20px;">  </div> <p style="font-size: small; margin-top: 10px;">By Techno Fittings S.r.l. <a href="http://www.technofittings.com">http://www.technofittings.com</a></p>

(a view of the integrated user manual inside the device operative system)

The device will always ask for the admin password to change the device configuration. When you try to access in a restricted area a password field will appear.



When you log-in as administrator you can change everything with just few minutes.

Main

Values Viewer

Inputs configuration

Network

Tools



## Sensor Connectivity - DAD

Device configuration and management.

Welcome **Admin** Log-out

### Network configuration

LAN



WIRELESS



### Info

To change the network settings just edit the left form and then click to the save button.

If you change the network settings the device must be restarted before the new settings will take effects.

**Note:** after the 1st reboot the device will take several minutes to apply new network settings.



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(here's a very intuitive interface that allow you to change the network settings)

To change network settings you have to select the interface to configure (Lan or WIFI) and fill the related configuration form.

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## Sensor Connectivity - DAD

Device configuration and management.

Welcome **Admin** Log-out

### Network configuration

#### Network Configuration

Ip address	<input type="text" value="192.168.1.92"/>
Subnet mask	<input type="text" value="255.255.255.0"/>
Broadcast	<input type="text" value="192.168.1.255"/>
Gateway	<input type="text" value="192.168.1.1"/>
Dns Server	<input type="text" value="192.168.1.1"/>
Mac Address	<input type="text" value="00:50:C2:6D:A2:00"/>
Host name	<input type="text" value="SCDAD"/>

### Info

To change the network settings just edit the left form and then click to the save button.

If you change the network settings the device must be restarted before the new settings will take effects.

**Note:** after the 1st reboot the device will take several minutes to apply new network settings.



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(Standard LAN configuration form)

Configuring inputs is very easy, you will have to select the input icon, and fill

the configuration form.

The standard DAD supports the data acquisition of Analog and Digital electric signals, serial port devices/sensors.

The data can be also treated inside the box by using treating plug-ins




Serial port drivers, plug-in and any other type of extension can be installed with just a few of click and minutes by using the upgrade function on the Tools section.



(you can install packages in a very simple way by using the web interface)

Here's an example of a configuration form for the electric signals acquisition.

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## Sensor Connectivity - DAD

Device configuration and management.

Welcome **Admin** [Log-out](#)

Inputs

### Hardware Configuration

#### Slot 1 - card id 66

Channel	Label	Measurement type	Calibration (Show / Hide)
CH1	SLOT 1 - CH 1	±10 Volt (Unit mV) ▼	0 <input type="button" value="Calibrate"/>
CH2	SLOT 1 - CH 2	±10 Volt (Unit mV) ▼	0 <input type="button" value="Calibrate"/>
CH3	SLOT 1 - CH 3	±10 Volt (Unit mV) ▼	0 <input type="button" value="Calibrate"/>
CH4	SLOT 1 - CH 4	±10 Volt (Unit mV) ▼	0 <input type="button" value="Calibrate"/>
CH5	SLOT 1 - CH 5	±10 Volt (Unit mV) ▼	0 <input type="button" value="Calibrate"/>
CH6	SLOT 1 - CH 6	±10 Volt (Unit mV) ▼	0 <input type="button" value="Calibrate"/>
CH7	SLOT 1 - CH 7	±10 Volt (Unit mV) ▼	0 <input type="button" value="Calibrate"/>
CH8	SLOT 1 - CH 8	±10 Volt (Unit mV) ▼	0 <input type="button" value="Calibrate"/>

#### Slot 2 - card id 68

Channel	Label	Measurement type	Calibration (Show / Hide)
CH1	SLOT 2 - CH 1	±10 Volt (Unit mV) ▼	0 <input type="button" value="Calibrate"/>
CH2	SLOT 2 - CH 2	±10 Volt (Unit mV) ▼	0 <input type="button" value="Calibrate"/>
CH3	SLOT 2 - CH 3	±10 Volt (Unit mV) ▼	0 <input type="button" value="Calibrate"/>
CH4	SLOT 2 - CH 4	±10 Volt (Unit mV) ▼	0 <input type="button" value="Calibrate"/>
CH5	SLOT 2 - CH 5	±10 Volt (Unit mV) ▼	0 <input type="button" value="Calibrate"/>
CH6	SLOT 2 - CH 6	±10 Volt (Unit mV) ▼	0 <input type="button" value="Calibrate"/>
CH7	SLOT 2 - CH 7	±10 Volt (Unit mV) ▼	0 <input type="button" value="Calibrate"/>
CH8	SLOT 2 - CH 8	±10 Volt (Unit mV) ▼	0 <input type="button" value="Calibrate"/>

(select the type of electric input, the name of the input and then save all settings)

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SC-DAD-SOFTWARE

Rev 1.0

[www.technofittings.com](http://www.technofittings.com)

You can view all run-time values with your web browser in the Values Viewer section.

The screenshot displays the web software interface. At the top, there is a navigation bar with tabs for 'Main', 'Values Viewer', 'Inputs configuration', 'Network', and 'Tools'. Below this, the page title is 'Sensor Connectivity - DAD' with a sub-section 'Values viewer.'. The main content area is titled 'Input Viewer Selection' and contains the instruction 'Please choose the type of values to view'. There are two columns of options: 'Analog Inputs' and 'Serial Inputs'. Under 'Analog Inputs', there are two radio button options: 'Raw' and 'Treated'. Under 'Serial Inputs', there are two radio button options: 'Com 1' and 'Com 2'. Each option is accompanied by a small preview image: a sine wave for 'Raw' and a square wave for 'Com 1'.

(The main page will show to you all available kind of values)

The ajax technology of the web based operative system allow to make dynamic pages with real-time values available on the screen.

Main
Values Viewer
Inputs configuration
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## Sensor Connectivity - DAD

Analog raw values viewer

Raw Values Viewer

Input Description	Values
Slot 1 - Ch1 - (SLOT 1 - CH 1)	776 mV
Slot 1 - Ch2 - (SLOT 1 - CH 2)	4 mV
Slot 1 - Ch3 - (SLOT 1 - CH 3)	3 mV
Slot 1 - Ch4 - (SLOT 1 - CH 4)	4 mV
Slot 1 - Ch5 - (SLOT 1 - CH 5)	-5 mV
Slot 1 - Ch6 - (SLOT 1 - CH 6)	0 mV
Slot 1 - Ch7 - (SLOT 1 - CH 7)	4 mV
Slot 1 - Ch8 - (SLOT 1 - CH 8)	4 mV
Slot 2 - Ch1 - (SLOT 2 - CH 1)	5 mV
Slot 2 - Ch2 - (SLOT 2 - CH 2)	4 mV
Slot 2 - Ch3 - (SLOT 2 - CH 3)	4 mV
Slot 2 - Ch4 - (SLOT 2 - CH 4)	4 mV
Slot 2 - Ch5 - (SLOT 2 - CH 5)	0 mV
Slot 2 - Ch6 - (SLOT 2 - CH 6)	4 mV
Slot 2 - Ch7 - (SLOT 2 - CH 7)	4 mV
Slot 2 - Ch8 - (SLOT 2 - CH 8)	4 mV

Configuration

**Viewer configuration**  
(You can select the values refreshing time to set the viewer speed, or reload the input configuration by using the following form)

**Refresh Time:**  ▼

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(an example of a values viewer page)