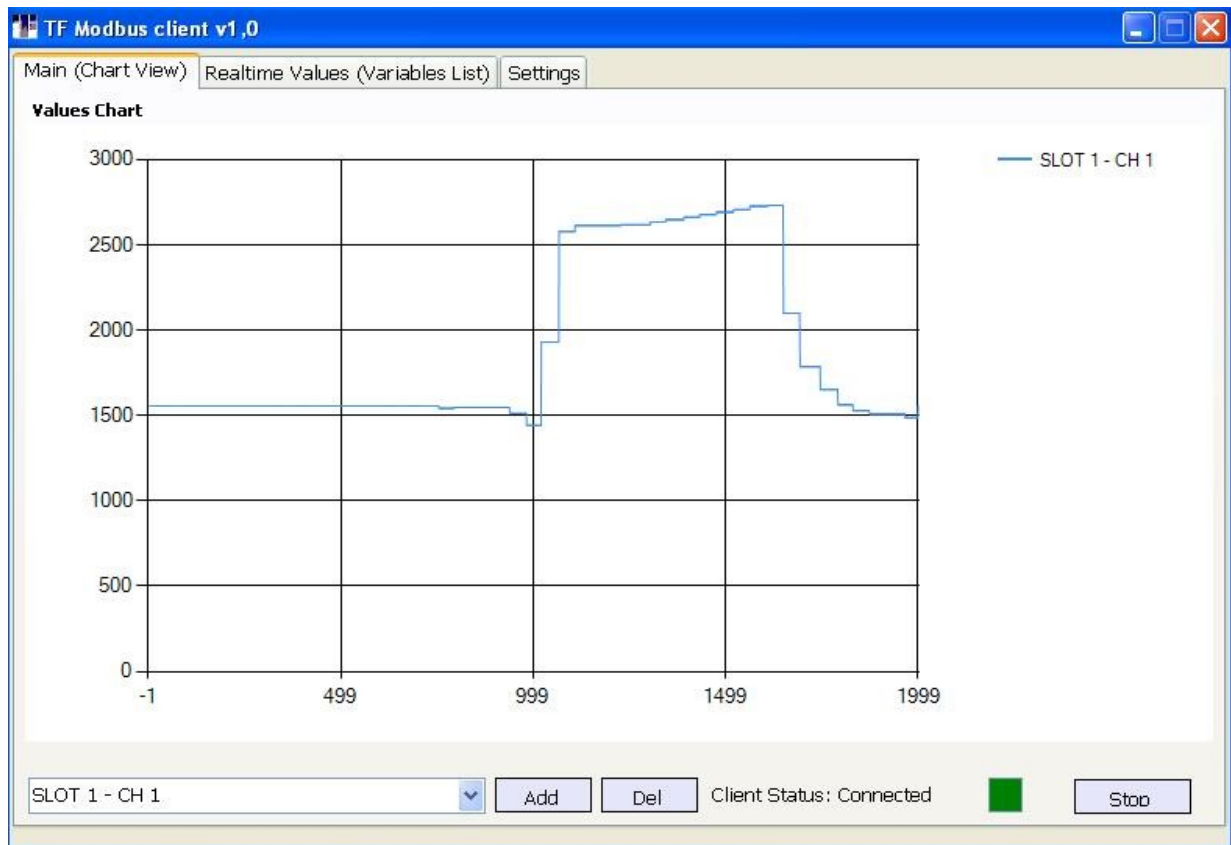


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### 1 – Software info and requirements

**TF Modbus Client** is a Modbus Client on TCP/IP compatible with all Techno Fittings Modbus based systems (it support the Modbus function code 04).



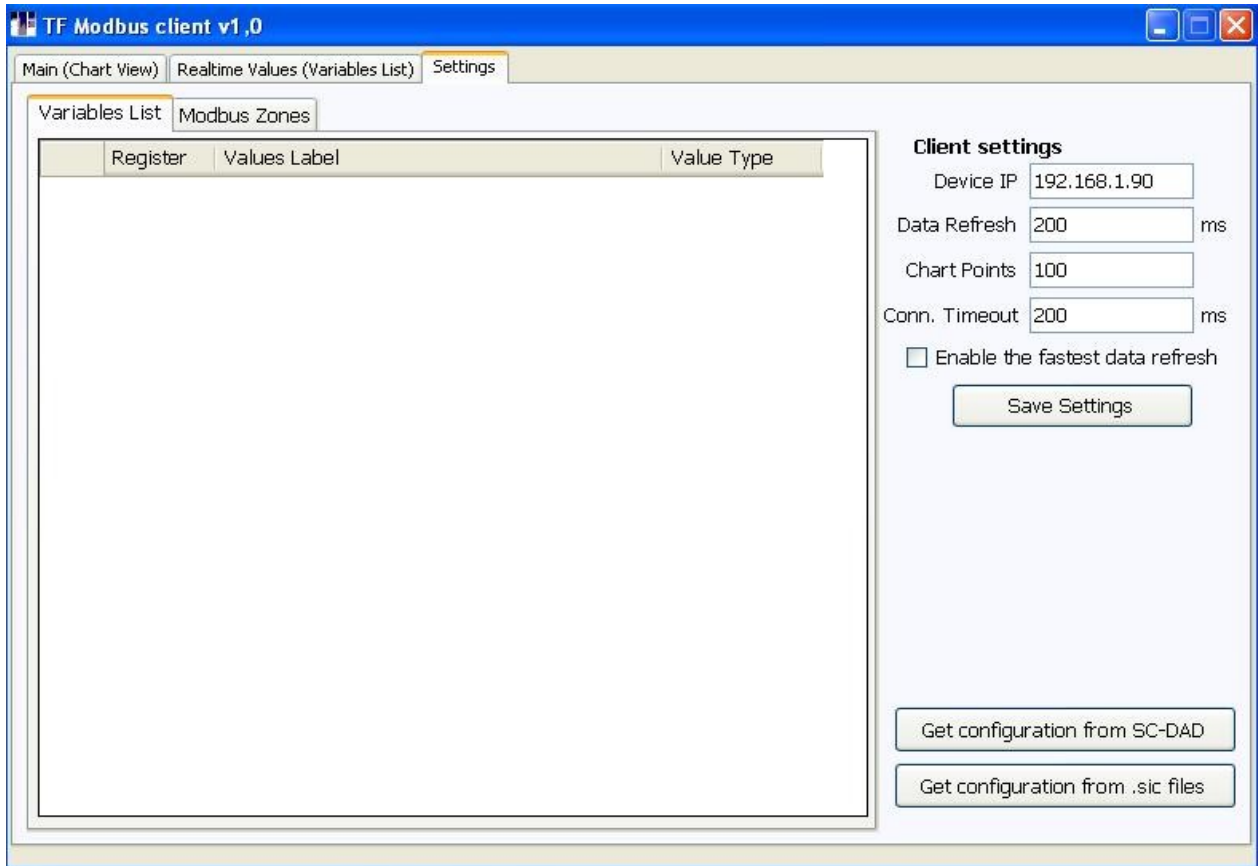
The software can acquire automatically the Modbus configuration by .sic files or on the fly from the Sensor Connectivity DAD devices in just one click.

The software can show real-time values in a list and a configurable values chart.

The software require the .NET Framework 4.0 (or newer) installed, please check the Microsoft's web site to get a recent .NET Framework.

## 2 – How to configure the software

To configure the software open the "Settings" panel, by clicking on the top panel label.



Fill all client settings

**Device IP:** The IP of the Modbus server on TCP/IP (the port is s by default to 502)

**Data refresh:** The delay between a full data refresh and a next one

**Chart points:** The number of points in the chart

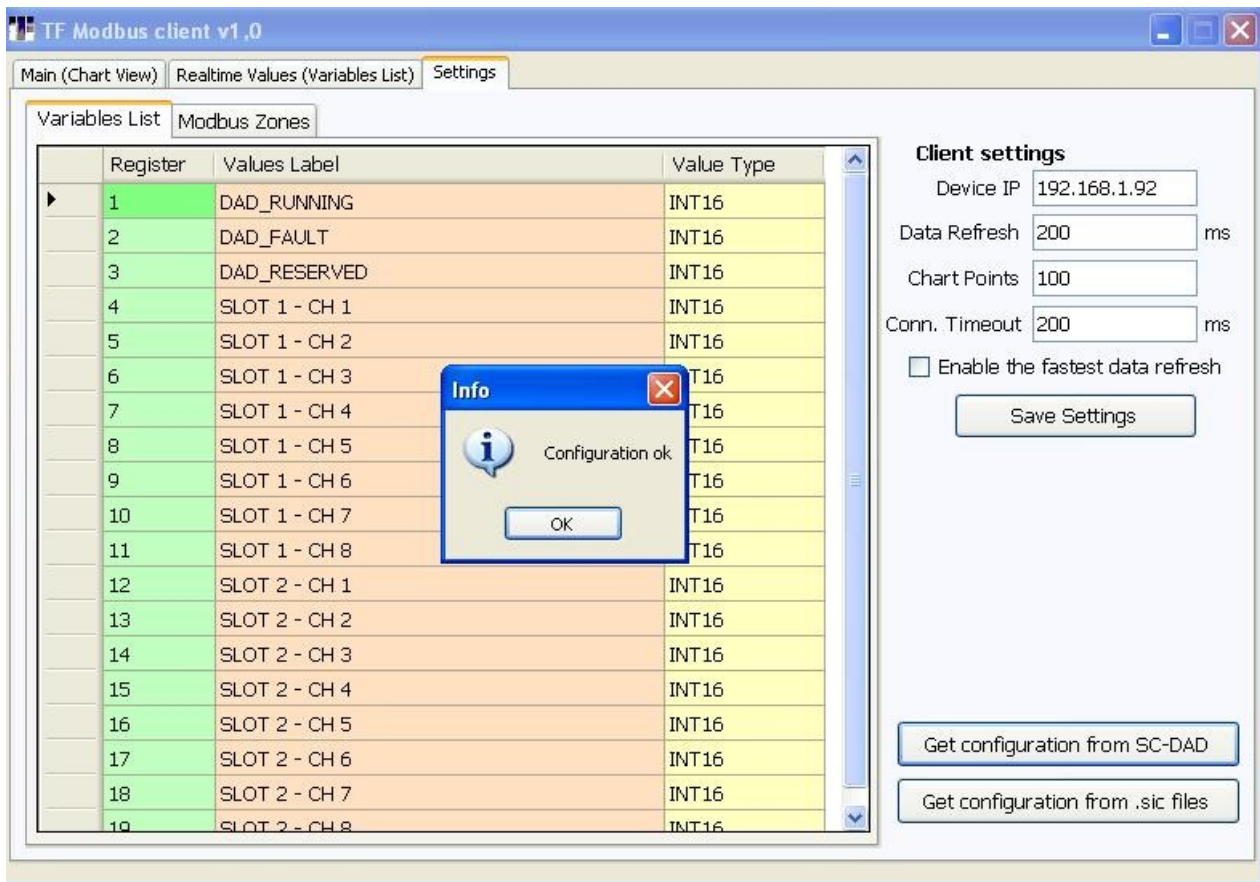
**Connection timeout:** The TCP/IP connection timeout

**Enable the fastest data refresh:** Use this option to acquire data in the fastest way, if checked no delay will be applied.

**When the configuration is done use the "Save Settings" button to apply and save settings.**

The next step is to obtain a correct Modbus mapping, there are two ways:

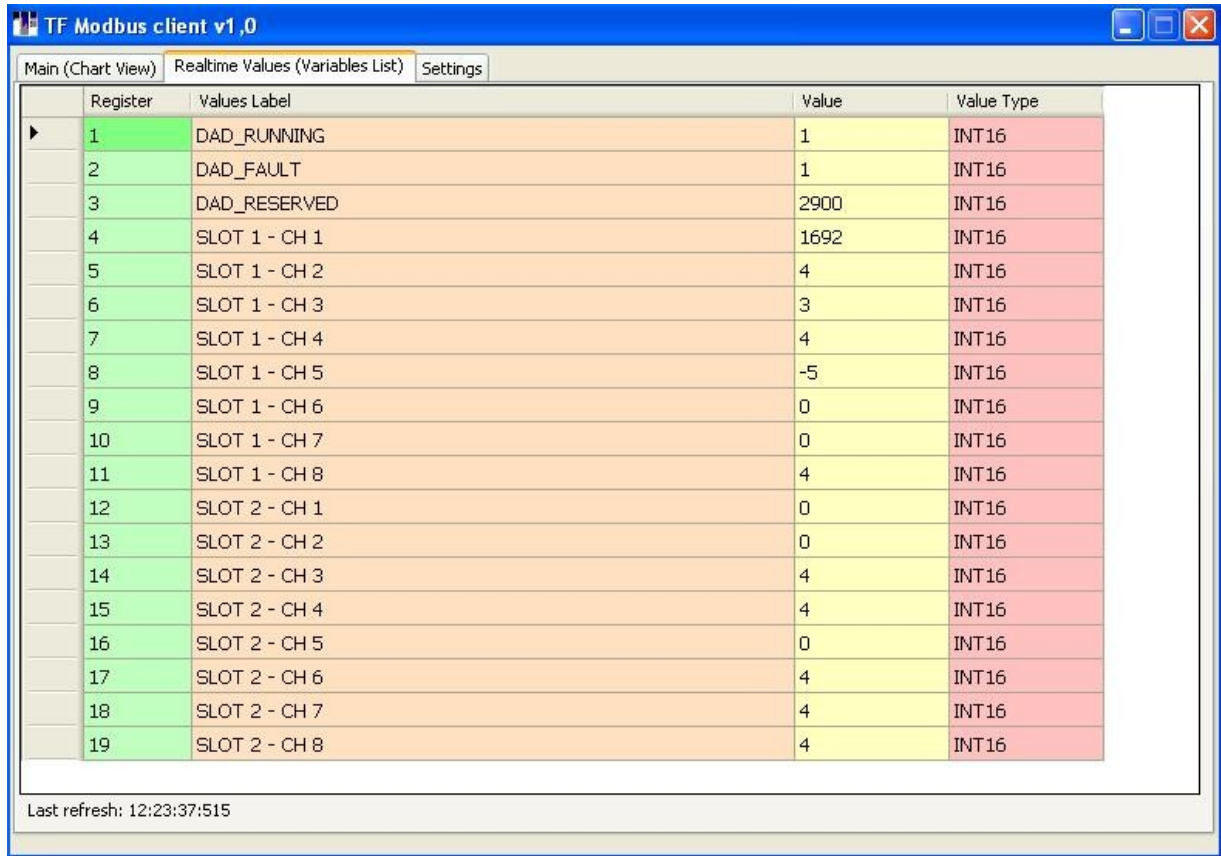
- 1) Getting the configuration on the fly from a Sensor Connectivity DAD, in this case to obtain the configuration just use the **"Get configuration from SC-DAD"** button from the Settings panel.
- 2) By selecting .sic files, in this case select RegisterTable and Dictionary .sic files.



(configuration client screen)

## 3 – Values Viewer

To enable the data-refresh use the **"Start"** button from the Main panel, then open the Values Viewer panel.



Register	Values Label	Value	Value Type
1	DAD_RUNNING	1	INT16
2	DAD_FAULT	1	INT16
3	DAD_RESERVED	2900	INT16
4	SLOT 1 - CH 1	1692	INT16
5	SLOT 1 - CH 2	4	INT16
6	SLOT 1 - CH 3	3	INT16
7	SLOT 1 - CH 4	4	INT16
8	SLOT 1 - CH 5	-5	INT16
9	SLOT 1 - CH 6	0	INT16
10	SLOT 1 - CH 7	0	INT16
11	SLOT 1 - CH 8	4	INT16
12	SLOT 2 - CH 1	0	INT16
13	SLOT 2 - CH 2	0	INT16
14	SLOT 2 - CH 3	4	INT16
15	SLOT 2 - CH 4	4	INT16
16	SLOT 2 - CH 5	0	INT16
17	SLOT 2 - CH 6	4	INT16
18	SLOT 2 - CH 7	4	INT16
19	SLOT 2 - CH 8	4	INT16

Last refresh: 12:23:37:515

**The list will contain 4 fields for each variable**

**Register:** The 1st Modbus register of each variable

**Values Label:** The label value of each variable

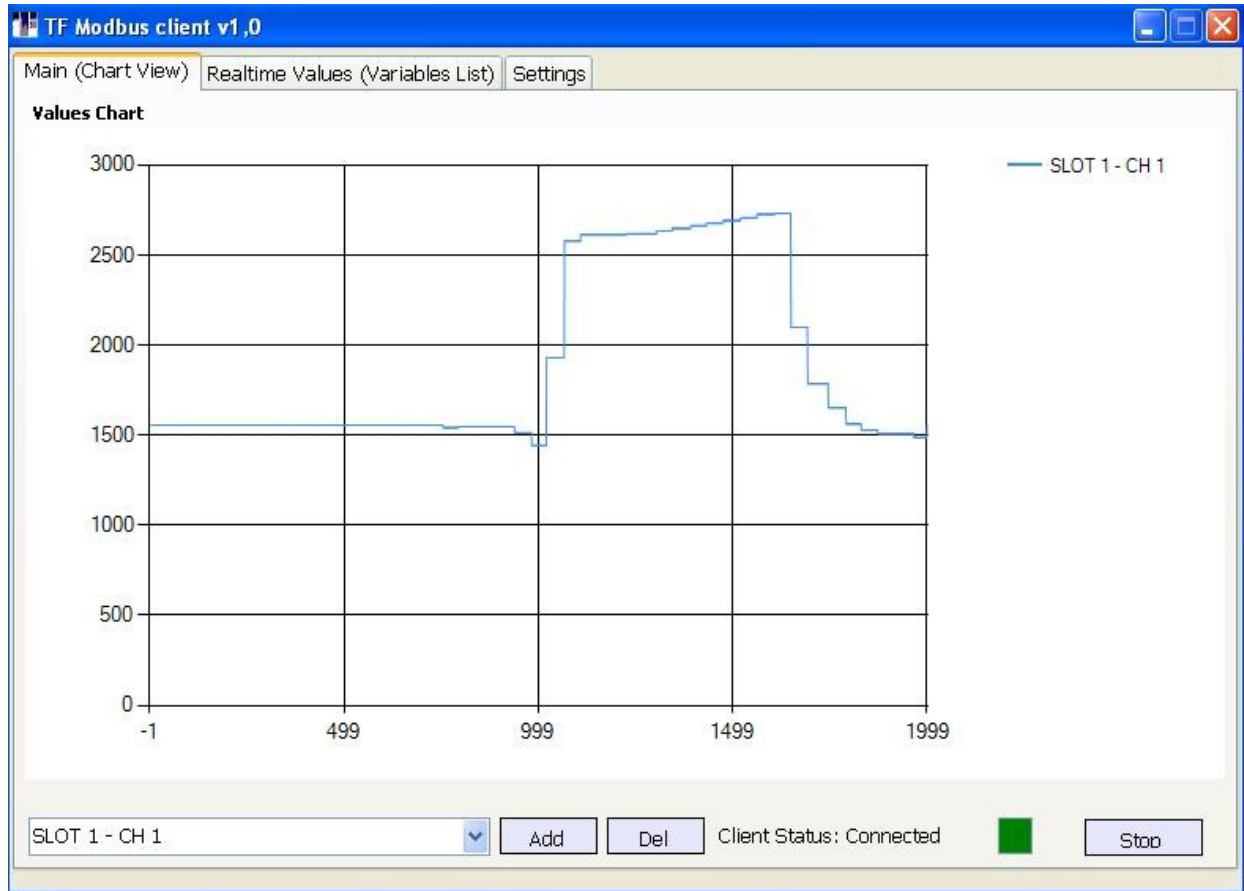
**Value:** The real-time value

**Value Type:** The data type of the value

The list will be refreshed automatically at each data-refresh.

## 4 – Values Chart

A configurable values chart is available in the Main panel.



To **add/remove** a variable to/from the chart:

- 1) Select the variable to add/remove from the variable's combo box
- 2) Use the Add/Remove button to add or remove a variable to/from the chart

The X line will contain all chart point, the Y line the variables value.

## 5 – Document info

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