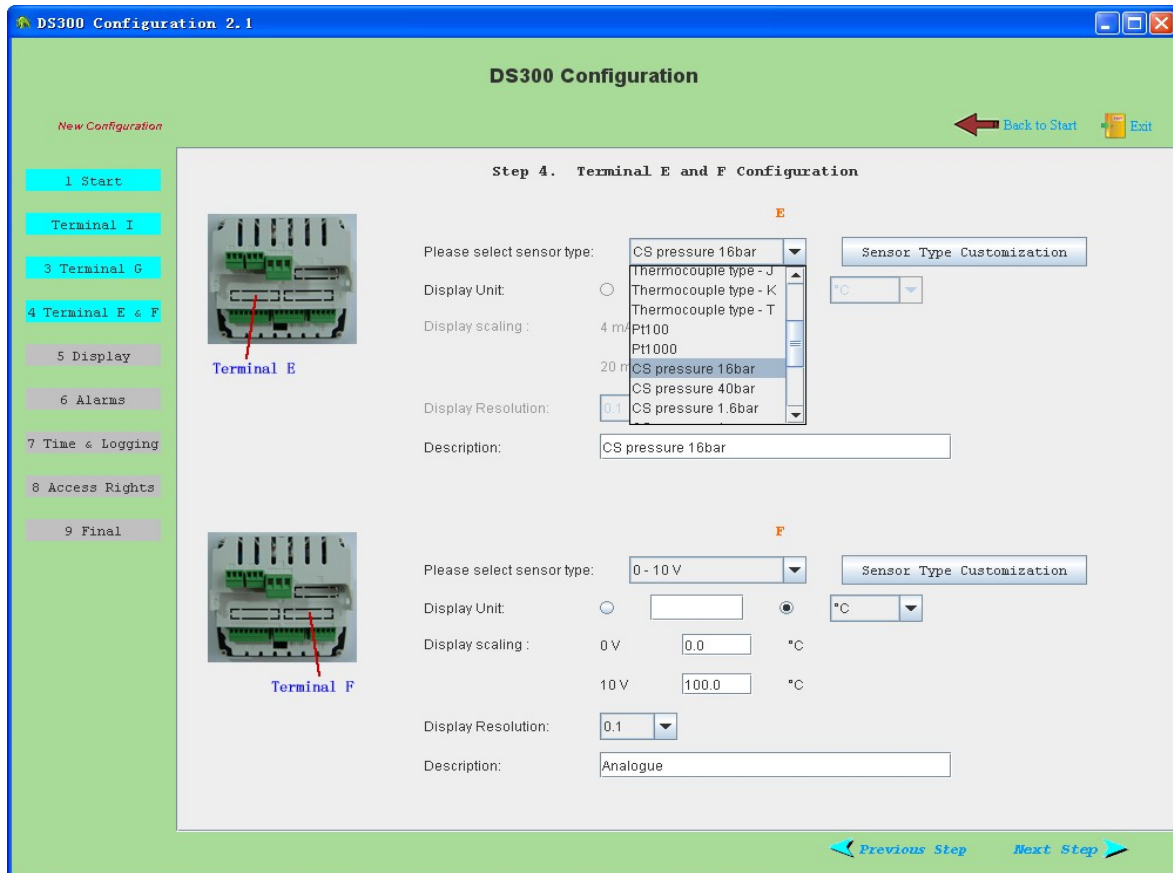


Using Customized Analogue Sensor Type in DS300 Configuration Software

1. Overview

For DS300 analogue sensor connection, couple of parameters can be set including sensor type, unit, scaling, resolution, PT wire type, etc.



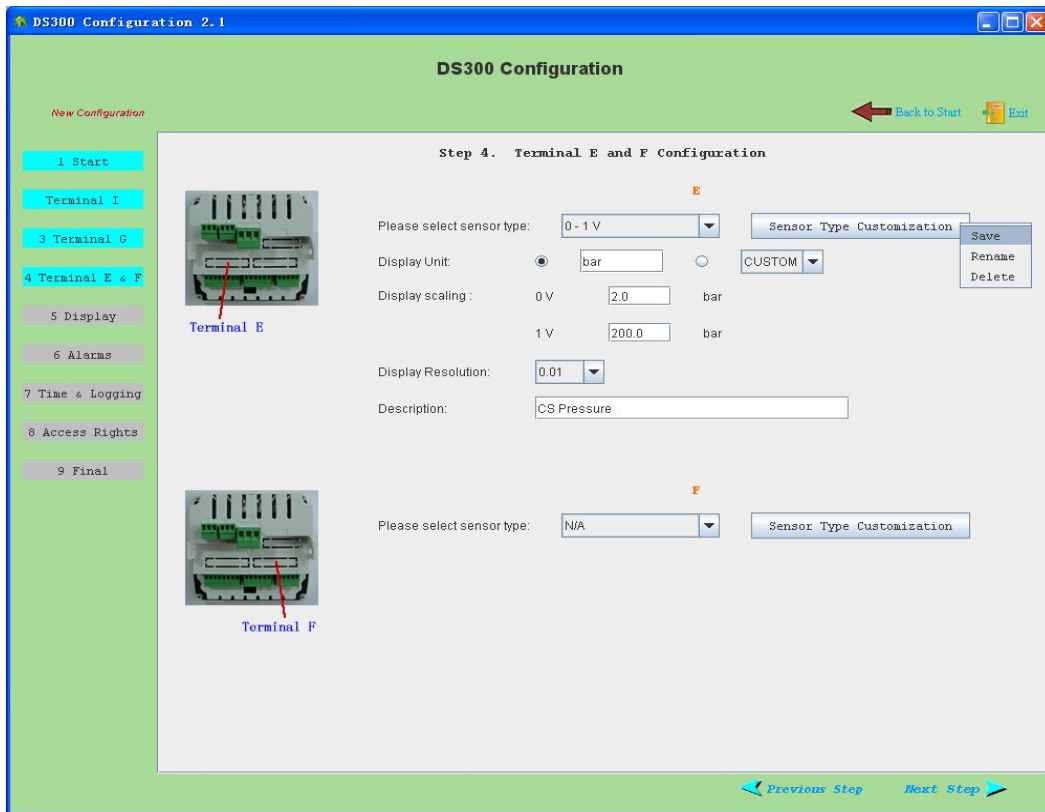
Starting from version 2.1, DS300 Configuration Software provides user a feature to pre-set the parameters, and save as a customized analogue sensor type for future usage. For example, in the above screen shot, 'CS pressure 16bar' is a customized analogue sensor type.

Standard installation of the configuration software comes with 8 standard sensor types: 0_20 MA, 4_20 MA, 0_1 V, 0_10 V, THERMO_E, THERMO_J, THERMO_K, THERMO_T, PT100 2_WIRE, PT100 3_WIRE, PT100 4_WIRE, PT1000 2_WIRE, PT1000 3_WIRE, PT1000 4_WIRE, and 4 pre-set customized sensor types: **CS Pr. 16 bar**, **CS Pr. 40 bar**, **CS Pr. 1.6 bar abs.**, **CS 500 A sensor**. Those are not removable. However, user can add, change, delete their own ones.

2. Using Your Own Customized Analogue Sensor Type

2.1 Create New One

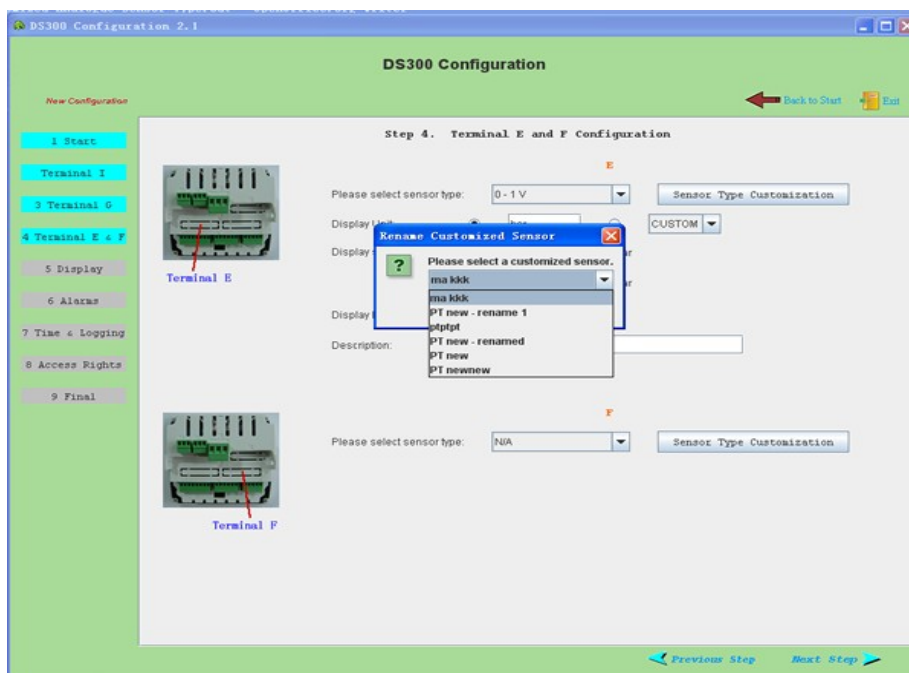
In Terminal E or F, set all parameters to proper value, then click 'Sensor Type Customization' and choose 'Save'. Give a name, then the new customized sensor type will be saved into a file named 'ana-sensor.cfg' for future use.



2.2 Rename Existing Sensor Type

Click 'Sensor Type Customization' and choose 'Rename', then select from the list which one to rename.

- Note: (1) only sensor types created by user will appear in the list;
(2) name can not be the same as any existing one.



2.3 Delete Existing Sensor Type

Click 'Sensor Type Customization' and choose 'Delete', then select from the list which one to delete. Note that this customized sensor type will also be deleted from the file 'ana-sensor.cfg'.

3. Sharing Customized Sensor Type

DS300 can now store customized sensor type information. This feature enables user to share customized sensor type definition.

Consider this scenario: user A create a customized sensor type named "SensorA". He then configure this sensor to Terminal E, and write the configuration into a DS300. Now user B takes this DS300 and read the configuration, there'll be 3 possibilities:

(1) "SensorA" already exists in the config file of user B's DS300 Configuration Software.

This is the simplest one. No additional action required.

(2) "SensorA" doesn't exist in the config file of user B's DS300 Configuration Software.

The configuration software will create a new customized sensor type "SensorA".

(3) There's already a "SensorA" exists in the config file of user B's DS300 Configuration Software, but, with different parameters.

In this case, user has 2 choices: a) use the "SensorA" information read from that DS300 to replace existing one; b) rename "SensorA".