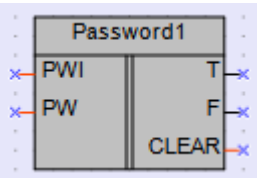
Display access protection
Password



Input	Data type	Description
PWI	INT32	Entered password
PW	INT32	Valid password
Output	**Data type**	**Description**
T	BOOL	Password is correct
F	BOOL	Password is incorrect
CLEAR	INT32	Reset the persistent variable with the entered password to 0 after verification

Function

The macro is used to restrict the user's access to certain display forms in the user application for the PR200 controller.

Create a display form and add the display element “I/O box (INT/REAL)” to it to enter the password on the device display (Fig. 1) using the front buttons.



Fig. 1

Connect the variable with the entered password to the **PWI** input of the macro. When the value at the **PWI** input changes, it is compared with the value at the **PW** input.

If they are equal, the output **T** of the macro is set to “1” for the time defined in the macro (1). Connect the output T to a Boolean variable to use this variable as the "jump condition" for the transition from the display form where the password is entered to the password-protected display form.

If the values on **PWI** and **PW** are not equal, the output **F** is set to “1” for the time defined in the macro (1). This output is recommended to use as a “jump condition” to the display form that should be displayed in the case of entering an incorrect password.

Connect the output **CLEAR** to the same variable that is connected to the input **PWI** to automatically clear the input field after comparing the entered password with the stored one.

Attention! For the macro to function correctly, the variable connected to the input **PWI** and the output **CLEAR** must be non-volatile (persistent).

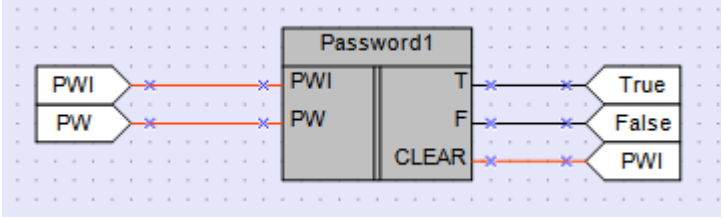


Fig. 2

One of the outputs **T** and **F**, depending on whether the password was entered correctly or not, changes to “1” only when the input variable changes. Otherwise, both outputs are “0”.

(1) To change the time delay settings of the outputs **T** and **F**, select “Edit macro” in the macro context menu in the main program.

Devices	PR200
Version	ALP 1.8.4
Last modification	24.10.2018