

AddPidController

Description

This function adds a new PID controller to the NETx Server. The controller loop is called every t_a seconds.

Signature

AddPidController (ItemID, ItemID, ItemID, number, number, number, number, number, number, number, number, number, boolean)

Parameters

Name	Type	Mandatory/Optional	Description
actualItemid	ItemID	M	The item that provides the current value
setpointItemid	ItemID	M	The item that provides the set point
controlItemid	ItemID	M	The item that is used to write the control value
t_a	number	M	The time interval of the controller (in seconds)
K_p	number	M	The proportional gain of the controller
K_i	number	M	The integral gain of the controller ($K_i = K_p/t_i$)
K_d	number	M	The derivative gain of the controller ($K_d = K_p \cdot t_d$)
minControlValue	number	M	The minimum value of the control value
maxControlValue	number	M	The maximum value of the control value
esumMin	number	M	The minimum of the error sum
esumMax	number	M	The maximum of the error sum
onChange	boolean	M	If true, the control value is only sent if it changes

Return

None.

Article applies to the following products:

- NETx BMS Platform R2 Build 1000+
- NETx Multi Protocol Server R2 Build 1000+