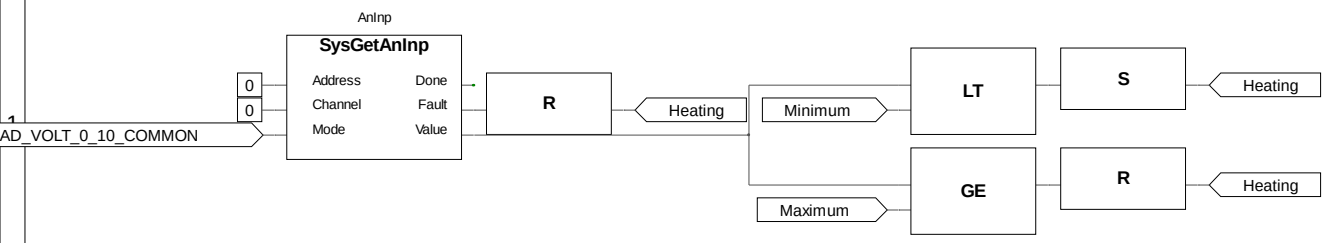
PROGRAM FBDWithHisteresys

```
VAR
AnInp : SysGetAnInp; (* Analog input acquisition *)
Minimum : REAL := 5.0; (* Minimum value *)
Maximum : REAL := 8.0; (* Maximum value *)
Heating : BOOL; (* Heating command *)
END_VAR
```



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	Author :	Date:18/11/2015
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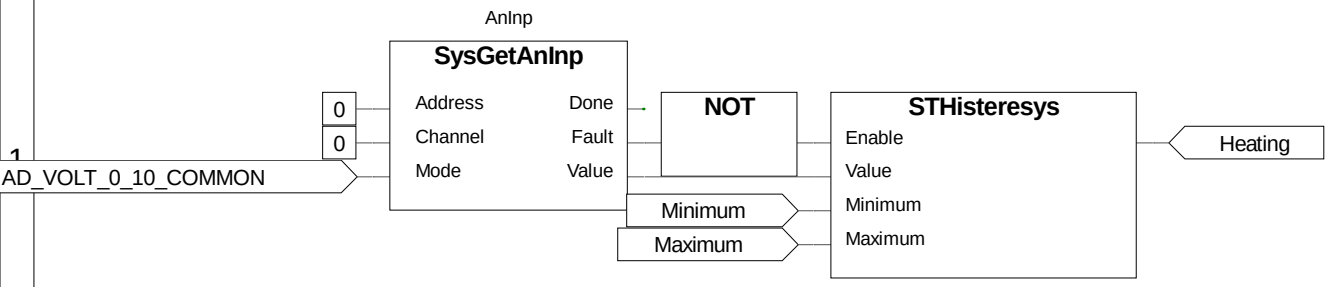
```
VAR
AnInp : SysGetAnInp; (* Analog input acquisition *)
Minimum : REAL := 5.0; (* Minimum value *)
Maximum : REAL := 8.0; (* Maximum value *)
Heating : BOOL; (* Heating command *)
END_VAR
```

```
(* Acquire analog input. *)

AnInp.Address:=0; (* Module address *)
AnInp.Channel:=0; (* Module channel *)
AnInp.Mode:=AD_VOLT_0_10_COMMON; (* Acquisition mode *)
AnInp(); (* Execute the analog acquisistion *)

(* Histeresys *)

IF (AnInp.Value < Minimum) THEN Heating:=TRUE; END_IF; (* If the value drops below minimum set the command *)
IF (AnInp.Value >= Maximum) THEN Heating:=FALSE; END_IF; (* If the value reach the maximum reset the command *)
IF (AnInp.Fault) THEN Heating:=FALSE; END_IF; (* On FB fault reset the command *)

```

PROGRAM FBDWithFunction

```
VAR
AnInp : SysGetAnInp; (* Analog input acquisition *)
Minimum : REAL := 5.0; (* Minimum value *)
Maximum : REAL := 8.0; (* Maximum value *)
Heating : BOOL; (* Heating command *)
END_VAR
```



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	PROGRAM : FBDWithFunction	
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```
VAR_INPUT
Enable : BOOL; (* Function enable *)
Value : REAL; (* Value *)
Minimum : REAL; (* Minimum value *)
Maximum : REAL; (* Maximum value *)
END_VAR
```

```


    IF (Value < Minimum) THEN STHisteresys:=TRUE; END_IF; (* If the value drops below minimum set the command *)
    IF (Value >= Maximum) THEN STHisteresys:=FALSE; END_IF; (* If the value reach the maximum reset the command *)
    IF NOT(Enable) THEN STHisteresys:=FALSE; END_IF; (* If the function is not enabled reset the command *)

```

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	FUNCTION : STHisteresys	
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FUNCTION FBDHisteresys

```
VAR
Enable : BOOL; (* Function enable *)
Value : REAL; (* Value *)
Minimum : REAL; (* Minimum value *)
Maximum : REAL; (* Maximum value *)
END_VAR
```

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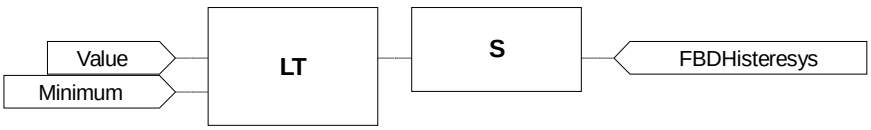
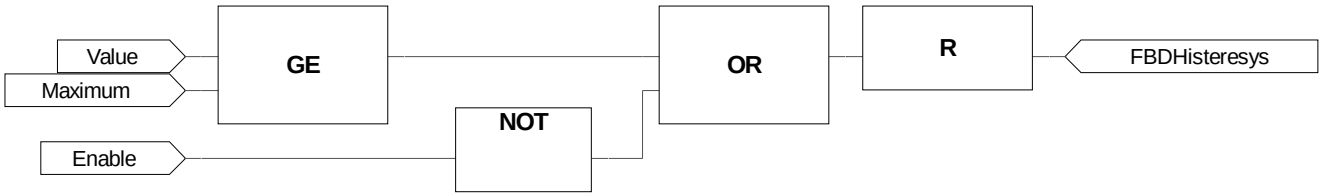


2



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