

Fallback mode the BMEAHI0812 and the BMEAHO0412

Goals and Symptoms

What happens when the PLC is in STOP mode or if communication between the PLC and the HART input or output module has stopped?

Facts and Changes

M580, BMEAHI0812, BMEAHO0412

Causes and Fixes

BMEAHO0412 case

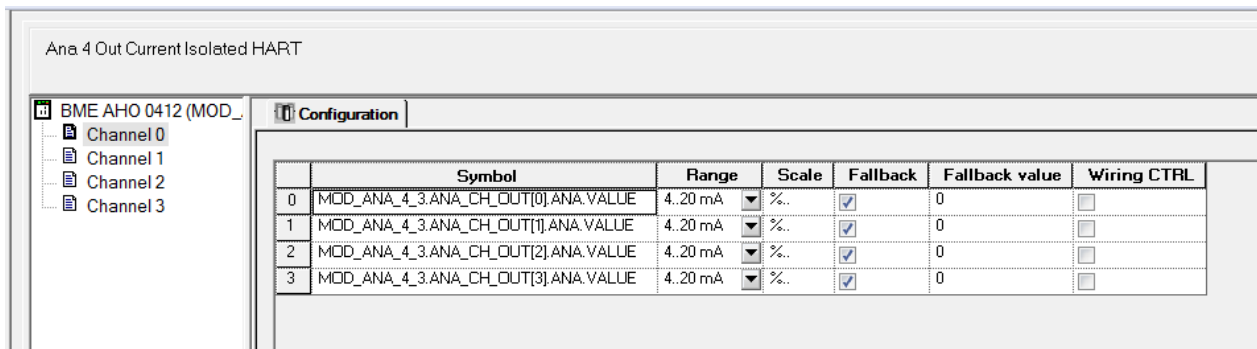
There are two settings available for the BMEAHO0412 in configuration:

➔ Fallback is used to specify the behavior of the output when the PLC is in STOP mode or if communication between the PLC and the output module has stopped:

- when Selected: the value specified in the **Fallback Value** parameter is assigned to the output.
- when De-selected: the output maintains its value.

➔ Fallback value: If the **Fallback** parameter is selected, this value is assigned to the output on fallback. The range of available values is defined by the 0%...100% scaling settings.

This is available for the analog output signal as well.



The screenshot shows the configuration window for 'Ana. 4 Out Current Isolated HART' on a BMEAHO0412 module. The 'Configuration' tab is active, displaying a table with the following data:

	Symbol	Range	Scale	Fallback	Fallback value	Wiring CTRL
0	MOD_ANA_4_3.ANA_CH_OUT[0].ANA.VALUE	4..20 mA	%..	<input checked="" type="checkbox"/>	0	<input type="checkbox"/>
1	MOD_ANA_4_3.ANA_CH_OUT[1].ANA.VALUE	4..20 mA	%..	<input checked="" type="checkbox"/>	0	<input type="checkbox"/>
2	MOD_ANA_4_3.ANA_CH_OUT[2].ANA.VALUE	4..20 mA	%..	<input checked="" type="checkbox"/>	0	<input type="checkbox"/>
3	MOD_ANA_4_3.ANA_CH_OUT[3].ANA.VALUE	4..20 mA	%..	<input checked="" type="checkbox"/>	0	<input type="checkbox"/>

BMEAHI0812 case

The Fallback Mode Setting is available only for HART signal; If the HART instrument on this channel is disconnected, or if there is no HART instrument, this setting determines the value that is assigned to the primary variable (PV):

- 0 - Set to 0
- 1 - Hold Last Value
- 2 - Not a Number (NaN)

Default = NaN

To configure this:

- Open the DTM browser
- Add the BMEAH10812
- Open the configuration page of the AHI
- Under configuration > parameter configuration, choose the fallback mode of the channel
- Apply changes
- Right click on the AHI in the DTM browser > additional function > transfer to the FDR server

