

5.6 Configuring the AddFEM

The AddFEM is configured via PROFIBUS DP according to procedures defined in the PROFIBUS standard.

The CD supplied with your AddFEM contains a GSD file you can edit using the usual PROFIBUS configuration tools, such as HW-Config or COM-PROFIBUS. Based on this file, the configuration tool generates a master parameter data set. This set will be saved to memory in the automation processor (AP), and downloaded to the AddFEM within the initialization phase.

For further information, refer to the description of the configuration tool used.

For further information on using the GSD files, refer to "readme.pdf" on the AddFEM CD.

5.6.1 Adjustable parameters

Parameter	Range/Value	Remarks
Operating mode AddFEM	"Standard not redundant " "AS red., AddFEM not red. " "AS not red., AddFEM red. " "AS red., AddFEM red."	Mode 0 Mode 1 Mode 2 Mode 3 (see also section 3.3 "Operating modes")
Redundant AddFEM	"No redundant partner" "PROFIBS-Address: 1"	This parameter is available only with "SIMATIC PCS7" configuration. Default setting is "No redundant partner"
Input type/range AI 1 Input type/range AI 6	"Current 4...20 mA" "Current 0...20 mA" "Current +/-20 mA" "Current +/-30 mA" "Voltage +/-10 V" "Voltage 0...10 V"	The analog inputs 1 to 12 support channelselective adjustments. The analog inputs 1 to 6 can be programmed for operation as voltage or current input mode.
Input type/range AI 1 Input type/range AI 6	"Current 4...20 mA" "Current 0...20 mA" "Current +/-20 mA" "Current +/-30 mA"	Analog inputs 7 to 12 can only be use in current input mode.
Output type/range AO 1 Output type/range AO 8	"Current 4...20 mA" "Current 0...20 mA" "Current +/-20 mA" "Current +/-30 mA" "Current +/-50 mA"	The analog outputs 1 to 8 support channel selective adjustments. They are implemented for operation in current output mode Note: If the current range is set to +/- 50 mA, the analog outputs are limited to a mean load of 40 mA to protect the module. Please see technical specification: Analog outputs
Counter 1	"Ident. of rot. direction off" "Ident. of rot. direction on"	Counter 1 can be programmed for operation with or without detection of the rotational direction. If detection of the rotational direction is enabled, channel 1 returns the leading and channel 2 the lagging signal.
Filter AI 1 Filter AI 12	"No filter" "Filter 50 Hz" "Filter 60 Hz" "Filter 16 2/3 Hz" "Filter 500 Hz"	A filter function can be programmed for each analog input to suppress the relevant mains frequency. Sth system provides filters for 50 Hz, 60 Hz, 16 2/3 Hz and 500 Hz ¹⁾ . The filtering can be set individually for each analog input (channel-selective). Default setting is "No filter" i.e. disabled! ¹⁾ As of version 14 of 6DL3100-8AC
Delayed shutoff (if the host CPU becomes unavailable briefly. For details please see 0 "Delayed shutoff ")	"0 ms" "10 ms" "20 ms" "50 ms" "100 ms" "200 ms" "500 ms" (default) "1 s" "2 s" "3 s"	The AddFEM is capable of compensating short-term gaps in the execution cycle of the host CPU, for example, when the system updates redundant APs. A "hard" shutoff of the outputs is not carried out unless the set tolerance time has expired

Table 5-8 Adjustable parameters