



SAFETY  
NONSTOP

## Revision List

### H\_FS\_LIB – HIMA Functional Safety Management Library

HI 800 135  
(1030)

Name	Description	Version	Creator	Tester	Rev	Date of Creation	Date of Test	Code Version Hex (16#)	CRC Comparison E2V4.1 B6134	E2V5.1 B710
<b>H_FS00</b>	<b>Convert Functions</b>									
H_FS00_B_T_W	BINARY TO WORD CONVERSION	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	5.11.2004	5.11.2004	16#792C	ok	ok
H_FS00_W_T_B	WORD TO BINARY CONVERSION	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	5.11.2004	5.11.2004	16#C6D1	ok	ok
<b>H_FS01</b>	<b>Select Functions</b>									
H_FS01_1oo2_B	1 OUT OF 2 SELECTION (BOOL)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	27.05.2004	28.05.2004	16#27B3	ok	ok
H_FS01_1oo2_I	1 OUT OF 2 SELECTION (INT)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	28.05.2004	28.05.2004	16#5CCD	ok	ok
H_FS01_1oo2_R	1 OUT OF 2 SELECTION (REAL)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	27.05.2004	28.05.2004	16#D675	ok	ok
H_FS01_2oo2_I	2 OUT OF 2 SELECTION (INT)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	23.02.2006	24.02.2006	16#2BFF	ok	ok
H_FS01_2oo2_R	2 OUT OF 2 SELECTION (REAL)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	08.03.2006	10.03.2006	16#FEA7	ok	ok
H_FS01_2oo3_B	2 OUT OF 3 SELECTION (BOOL)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	11.05.2004	14.05.2004	16#D596	ok	ok
H_FS01_FV	FIRST VALUE BLOCK (BOOL)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	13.10.2005	13.10.2005	16#4DDB	ok	ok
H_FS01_NooM_B	N OUT OF M SELECTION (BOOL)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	22.11.2004	22.11.2004	16#E6E6	ok	ok



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H_FS01_NV	NEW VALUE BLOCK (BOOL)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	16.06.2005	17.06.2005	16#0678	ok	ok
<b>H_FS02</b>	<b>Calculation Functions</b>									
H_FS02_AVER_I	AVERAGE OF 3 VALUES (INT)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	01.06.2004	08.06.2004	16#0D1D	ok	ok
H_FS02_AVER_R	AVERAGE OF 3 VALUES (REAL)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	01.06.2004	08.06.2004	16#DC10	ok	ok
H_FS02_INTERPOL_I	ANALOG VALUE NON-LINEAR SCALING (INT)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	2.0	15.11.2004	09.06.2005	16#24D2	ok	ok
H_FS02_INTERPOL_R	ANALOG VALUE NON-LINEAR SCALING (REAL)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	2.0	15.11.2004	09.06.2005	16#C293	ok	ok
H_FS02_MEAN_R	MEAN VALUE (REAL)	ELOP II V3.5 Build 6812 <b>No Release for ELOP II V4.1 *</b> <b>No Release for ELOP II V5.1 *</b>	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	02.12.2004	02.12.2004	16#BB8B	16#FA87	16#FA87
<b>*Assignment of priorities of array variables changed from V3.5 to V4.1</b>										
H_FS02_MEDIAN_I	MEDIAN OF 3 VALUES (INT)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	26.05.2004	27.05.2004	16#9AD1	ok	ok
H_FS02_MEDIAN_R	MEDIAN OF 3 VALUES (REAL)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	26.05.2004	27.05.2004	16#D9C5	ok	ok
H_FS02_NRT_I	NORMAL ROOT EXTRACTION (INT)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	14.05.2004	26.05.2004	16#76B3	ok	ok
H_FS02_NRT_R	NORMAL ROOT EXTRACTION (REAL)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	14.05.2004	26.05.2004	16#44E3	ok	ok



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H_FS02_PTM_R	FLOW COMPENSATION (REAL)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.1	09.06.2004	09.06.2005	16#5214	ok	ok
H_FS02_SCALE_I	ANALOG VALUE SCALING (INT)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	26.05.2004	27.05.2004	16#3856	ok	ok
H_FS02_SCALE_R	ANALOG VALUE SCALING (REAL)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	26.05.2004	27.05.2004	16#4982	ok	ok
<b>H_FS04</b>	<b>Control Functions</b>									
H_FS04_PT1	PT1 FUNCTION (REAL)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	08.03.2005	07.06.2005	16#C6C0	ok	ok
H_FS04_RAMP_I	RAMP FUNCTION (INT)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	07.06.2004	09.06.2004	16#B34A	ok	ok
H_FS04_RAMP_R	RAMP FUNCTION (REAL)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	07.06.2004	09.06.2004	16#E712	ok	ok
<b>H_FS05</b>	<b>Common Functions</b>									
H_FS05_FLASH	DEFINED PULS / FLASHING	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	02.12.2004	02.12.2004	16#C6AF	ok	ok
H_FS05_LIMH_I	LIMIT SWITCH HIGH (INT)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	18.05.2004	25.05.2004	16#01B7	ok	ok
H_FS05_LIMH_R	LIMIT SWITCH HIGH (REAL)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	25.05.2004	25.05.2004	16#62D1	ok	ok
H_FS05_LIML_I	LIMIT SWITCH LOW (INT)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	19.05.2004	19.05.2004	16#11DD	ok	ok



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H_FS05_LIML_R	LIMIT SWITCH LOW (REAL)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	19.05.2004	19.05.2004	16#7DF5	ok	ok
H_FS05_STEP	STEP BUILDING BLOCK	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	22.12.2004	22.12.2004	16#D5B7	ok	ok
<b>H_FS06</b>	<b>Analog Functions</b>									
H_FS06_AIRED_I	ANALOG INPUT CONVERSION REDUNDANT(INT)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	23.09.2004	24.09.2004	16#0FB0	ok	ok
H_FS06_AIRED_R	ANALOG INPUT CONVERSION REDUNDANT-REAL)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	1.0	11.10.2004	11.10.2004	16#4BF7	ok	ok
H_FS06_AI_I	ANALOG INPUT CONVERSION (INT)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	2.0	15.06.2004	27.02.2006	16#EDD1	ok	ok
H_FS06_AI_R	ANALOG INPUT CONVERSION (REAL)	ELOP II V3.5 Build 6812 ELOP II V4.1 Build 6134 ELOP II V5.1 Build 710	HIMA_IEC61508	HIMA_IEC61508_TESTER	2.0	23.06.2004	27.02.2006	16#6009	ok	ok