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TP1200 EEPROM Layout



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Revision History

Revision	Reference	Released Date	Approved By	Description
00	872/14	2015-02-27	SST	Initial version
01	2005/18	2018-08-08	SST	Complete EEprom layout table updated. Added in the EEPROM Layoyt Table: "Max=30" for LUT_P_ADC and "Max = 140" for LUT_T_ADC



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EEPROM Layout

Byte	Format	Name	Default	Description
			em block	
0	Uint8	EE_start	AAh	Unique start byte
1-2	Uint16	EE ident	11587 _d	SWD doc number of EEPROM definition.
3	Uint8	EE_layout	Od	Version of EE ident
4-7	Uint8 x 4	Reserved	00h	Bytes reserved
			luct Info	7
8-11	Uint32	Sensor_S/N	-	Sensor serial number
12-19	Char x 8	Product id	-	Memscap partnumber
20	Uint8	Day	-	
21	Uint8	Month	-	Date of calibration
22-23	Uint16	Year	-	
		Transducei	r Configura	ation
			ADC S	
24-27	Uint32	ADC_Mode	4001 _h *	A/D General Configuration
28	Uint8	ADC_GPOCON	2 _h *	A/D IO Register
29	Uint8		00 _h	Padding
30-31	Uint16	ADC_timeout	20 _d *	A/D timeout of conversion
		ADC	Pressure (Channel Config
32-35	Uint32	ADC_config_P	610 _h *	A/D Configuration for pressure channel
36-39	Uint32	ADC_offset_P	-	A/D Offset for pressure channel
40-43	Uint32	ADC_gain_P	-	A/D Gain for pressure channel
44-47	Uint32	ADC_max_P	-	Maximum A/D value during calibration
48-51	Uint32	ADC_min_P	-	Minimum A/D value during calibration
52-53	Int16	Max_P	-	Maximum pressure value in range
54-55	Int16	Min_P	-	Minimum pressure value in range
56-63	Char x 8	Unit_P	Mbar	Unit of linearized pressure
64	Uint8	Points_P	30 _d *	Number of points in LUT. Max = 30
65-67	Uint8 x 3		00 _h	Padding
		ADC Te	emperatur	e Channel Config
68-71	Uint32	ADC_config_T	1 _h *	A/D Configuration for temperature channel
72-75	Uint32	ADC_offset_T	-	A/D Offset for pressure temperature
				channel
76-79	Uint32	ADC_gain_T	-	A/D Gain for pressure temperature channel
80-83	Uint32	ADC_max_T	-	Maximum A/D value during calibration
84-87	Uint32	ADC_min_T	-	Minimum A/D value during calibration
88-89	Int16	Max_T	85 _d *	Maximum calibrated temperature value
90-91	Int16	Min_T	-55 _d *	Minimum calibrated temperature value
92-99	Char x 8	Unit_T	С	Unit of linearized temperature
100	Uint8	Points_T	140 _d *	Number of points in LUT. Max = 140
101-103	Uint8 x 3		00 _h	Padding
CRC				
104-107	Uint32	CRC	-	CRC of initial EEPROM blocks



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Byte	Format	Name	Default	Description	
,	Linearization				
	Pressure LUT				
108-227	Float32 x Points_P	LUT_P_ADC	-	ADC values for pressure	
228-787	Float32 x Points_T	LUT_T_ADC	-	ADC values for temperature	
788-17587	Float32 x Points_P x Points_T	LUT_P	-	LUT for compensated pressure	
	Temperature LUT				
17588	Uint8	Points_lin_T	12 _d *	Number of lin points for temperature Max = 12	
17589- 17591	3 x Uint8		00 _h	Padding	
17592- 17687	Float32 x 2 x Points_lin_T	Lin_data_T	-	Matrix of 2 x Points_lin_T	
CRC					
17688- 17691	Uint32	CRC	-	CRC of Linearization data	
System Data					
17692- 17695	Float32	SW_offset	O _d		

^{*)} Contents can be different from default value.

All 32-bits floating point numbers in the table use ANSI/IEEE standard 754-1985. Signed integers are two's complement. Least significant byte is first, if not specified.