

Bill Of Material - Plant 1000 LEN/TNE



Assembled Board	0460 1185	Revision	2.2.a
Bare Board	0216 1185	Revision	2.*
Title	t400 MeasDevice		
Project File Name	0216 1185.PrjPCB		
Variante	0460 1185		
Creation Date	22.10.2018		12:18:09

Pos.	Material	Quantity	MatStatus	Material Description (EN, DE)	Comment	Mounting	Approved	Designators
1	0140 9999	2	● A	2D Label 2D Label	AOI Label	SMD	yes	AOI11, AOI12
2	0286 0044	3	● A	MLCC Capacitor;10uF;10V;0603;X5R MLCC Kondensator;10uF;6.3V;0603;X5R	=Value	SMD	yes	C21, C282, C284
3	0286 0065	36	● A	Cap.,100nF,50V,20%,0402, X7R MLCC Chip Kondensator, 0402, X7R,	=Value	SMD	yes	C31, C41, C51, C53, C55, C56, C57, C58, C67, C77, C89, C99, C104, C114, C161, C162, C164, C174, C176, C177, C179, C182, C183, C184, C186, C187, C214, C223, C272, C276, C281, C283, C285, C287, C288, C2811
4	0286 0073	15	● A	MLCC chip capacitor, 0402 MLCC Chip Kondensator, 0402	=Value	SMD	no	C42, C43, C44, C45, C46, C47, C171, C172, C188, C1815, C1933, C1934, C1935, C1936, C1937
5	0286 0072	9	● A	Cap.,10nF,25V,5%,0402, X7R MLCC Chip Kondensator 0402	=Value	SMD	yes	C52, C103, C113, C122, C132, C2712, C2810, C2813, C2814
6	0286 0047	30	● A	Capacitor,Cer.,1uF,10%,16V,X5R,0402 Capacitor,Cer.,1uF,10%,16V,X5R,0402	=Value	SMD	no	C54, C178, C192, C193, C194, C195, C196, C197, C198, C199, C216, C232, C242, C252, C262, C1711, C1712, C1910, C1914, C1916, C1917, C1919, C1920, C1921, C1922, C1923, C1926, C1931, C1932, C2710
7	0286 0058	8	● A	Chip capacitor 10nF 50V,5%,COG,0603 Chip-Kondensator 10nF 50V	=Value	SMD	yes	C61, C62, C65, C66, C71, C72, C75, C76
8	0286 0200	20	● A	MLCC Chip Cap.,0402,X7R,1nF,50V,TDK Kondensator MLCC; 1nF; 50V; 0402; X7R	=Value	SMD	yes	C63, C64, C73, C74, C81, C82, C83, C84, C91, C92, C93, C94, C286, C811, C812, C813, C911, C912, C918, C2812
9	0286 0069	15	● A	MLCC Chip Cap.,0402,C0G,33p,50V,Murata MLCC Chip Kondensator 0402	=Value	SMD	yes	C85, C86, C87, C88, C95, C96, C97, C98, C189, C212, C1810, C1811, C1812, C1813, C1814
10	0286 0064	8	● A	MLCC chip capacitor, 0402, COG, 100pF, MLCC Chip Kondensator, 0402, COG, 100pF,	=Value	SMD	yes	C101, C102, C111, C112, C231, C241, C251, C261

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11	0286 0080	8	● A	CERAMIC CAPACITOR 22 uF 16V +/-10% KERKO 22uF 16V +/-10%	=Value	SMD	yes	C121, C131, C273, C274, C278, C1927, C1928, C2711
12	0286 0046	11	● A	Cap.,4.7uF,16V,10%,0603, X5R Cap.,4.7uF,16V,10%,0603, X5R	=Value	SMD	no	C173, C175, C181, C185, C191, C215, C1911, C1913, C1915, C1918, C1924
13	0286 0041	5	● A	Cap., 10uF, 16V, 10%, 1210, X5R KERKO 10UF 16V 10%	=Value	SMD	yes	C211, C213, C271, C277, C1710
14	0286 0082	1	● A	MLCC,Cap.. 4.7uF,16V,0805,10%,X7R,YAGEO MLCC Kondensator;4.7uF;16V;0805;10%	=Value	SMD	yes	C279
15	0286 0048	2	● A	Cap.,22uF,6.3V,20%,0603, X5R Cap.,22uF,6.3V,20%,0603, X5R	=Value	SMD	no	C1912, C1925
16	0286 0008	2	● A	Capacitor, COG, 18pF, 0402 Capacitor, COG, 18pF, 0402	=Value	SMD	no	C1929, C1930
17	0306 0011	6	● A	Schottky-Diode MBR0540 (0.5A 40 V) Schottky-Diode MBR0540 (0.5A 40 V)	MBR0540T1	SMD	yes	D41, D52, D54, D55, D171, D271
18	0306 0040	4	● A	4-channel integrated ESD clamps 4-Kanal integrierte ESD Clamps	TPD4S012	SMD	yes	D51, D81, D91, D161
19	0306 0101	9	● A	Diode Diode	MCL4148	SMD	yes	D53, D101, D111, D122, D132, D281, D282, D283, D284
20	0306 0543	2	● A	Diode BAT54C SOT-23,Philips Diode BAT54C SOT-23,Philips	BAT54C	SMD	yes	D121, D131
21	0306 4041	1	● A	Diode, LM4041 - 1.2 V fixed Referenzdiode LM4041 - 1.2 V	LM4041C12IDBZ	SMD	yes	D286
22	0316 3691	4	● A	Comparator;TLV3691;LoPower;SC70;single Komparator;TLV3691;LoPower;SC70;single	TLV3691	SMD	no	IC51, IC52, IC101, IC111
23	0317 0000	2	● A	Switch_Hotswap,TPS25910,QFN-16,TI Switch_Hotswap;TPS25910;20V;QFN-16;6.5A	TPS25910	SMD	no	IC121, IC131

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24	0347 1188	1	● A	USB switch,NCN1188,UQFN-12,ON USB-Mux;NCN1188;3:1;;QFN	NCN1188	SMD	no	IC161
25	0346 0069	1	● A	Flash;IS25LP064A;64MBit;quadSPI;NOR;IS SI Flash;IS25LP064A;64MBit;quadSPI;NOR;IS SI	ISSI IS25LP064A- JBLE	SMD	no	IC172
26	0345 1050	1	● A	MCU,i.MX,RT1050,MAPBGA_196, NXP i.MX;RT1050;10x10mm;BGA196;0.65;ext Flsh	RT1050	SMD	no	IC173
27	0316 0560	1	● A	Step-down Converter,TPS62560,QFN-6,TI Step-down Converter,TPS62560,QFN-6,TI	TPS62560	SMD	yes	IC211
28	0380 0081	1	● A	Integrated digi. altimeter pres. sensor Integrierter digital Absolutdrucksensor	MS5607-02BA	SMD	yes	IC222
29	0316 4295	1	● A	USB Charger,BQ24295,VQFN-24,TI Laderegler;BQ24295;USB;3A;boost	BQ24295RGER	SMD	no	IC271
30	0335 7792	1	● A	ADC,AD7792,TSSOP-16,analog device AD 7792	AD7792	SMD	yes	IC281
31	0326 4051	1	● A	Analog-Mux 1 aus 8 Analog-Mux 1 aus 8	74HC4051D	SMD	yes	IC282
32	0315 1058	1	● A	Dual Operation Amplifier 2-fach OP	LM358	SMD	yes	IC283
33	0219 1840	1	● A	FPC connector,6pin,pitch 0.5mm FPC connector,6pin,pitch 0.5mm	FPC connector	SMD	no	J21
34	0222 0013	1	● A	Connector,board to board,female,10P-0.8S Buchse;Female;vert.;10pol;SMD;0,8mm;	ER8-10S-0.8SV- 5H	SMD	no	J51
35	0219 0045	1	● A	Pin header, 2.54mm, 1pin, FJY Pin header, 2.54mm, 1pin, FJY	Pin header, 2.54mm, 1pin	THT	no	J52
36	0222 1843	2	● A	Receptacle;USB-C;hor;SMD_THT:short Buchse ;USB-C;gerade;SMD_THT;short	TUC-Connector	SMD	no	J81, J91

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37	0222 2005	1	● A	Pin Header 2p. Straight Stiftleiste 2-pol, stehend	B2B-PH-SM3-TB	SMD	yes	J_BAT501
38	0222 1036	1	● A	USB Connector Micro Type B USB Buchse Micro Typ B	USB- B_MICRO_5PIN	SMD	no	J_USB161
39	0290 0018	2	● A	Ferrite control unit testo 300 XXL/350/ Ferrite	Z=75	SMD	yes	L51, L161
40	0290 0071	2	● A	CM-Choke;WE-CNSW;90R;0603;DataLine CM-Drossel;WE-CNSW;90R;0603;DataLine	WE 744230900	SMD	yes	L52, L162
41	0290 0048	25	● A	SMD-Ferrite 2200Ohm 0603 SMD-Ferrit 2200Ohm 0603	Z=2k2	SMD	yes	L61, L62, L71, L72, L81, L83, L84, L85, L91, L93, L94, L95, L172, L183, L184, L185, L186, L187, L188, L192, L193, L194, L281, L819, L919
42	0290 0058	9	● A	Ferrite,1A,1500Ohm@100M,0805,WE Multilayer-SMD-Ferrit	Z=1k5	SMD	yes	L82, L92, L171, L173, L181, L182, L191, L195, L212
43	0290 0072	1	● A	Power Inductor,4.7uH,1500mA,3015,WE- MAPI Speicherdrossel;4.7uH;1500mA;3015;WE- MAP	WE 74438335047	SMD	no	L196
44	0290 0000	1	● A	PMI,2.2uH,1300mA,L1008,WE PMI,2.2uH,1300mA,L1008,WE	LQM2HPN2R2M G0L	SMD	no	L211
45	0290 0050	1	● A	Inductor Shielded, SMT, Spule geschirmt, SMD,	=Value	SMD	yes	L271
46	0351 0048	1	● A	Bi-Color LED,90°,Green/Red,30mA,SMD,KB Bi-Color LED;90°;Green/Red;30mA;SMD	APBDA3020SUR KCGKC-GX	SMD	no	LED-181
47	0235 0048	2	● A	Indium ToR-preforms packaging 0603 Indium ToR-Preforms Bauform 0603	Tin-Preforms 0603	SMD	no	M1, M2
48	0360 0036	2	● A	NTC R_nom = 5000 Ohm @ 25°C NTC R_nom = 5000 Ohm @ 25°C	TT3-5KC3-41	THT	yes	NTC61, NTC71
49	0360 2003	1	● A	NTC 10K 3% SMD 0805 B57421V2103H062 NTC 10K 3% SMD 0805	B574	SMD	yes	NTC271

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50	0307 0849	13	● A	NPN-NF-Transistor BC849B	BC849B	SMD	yes	Q61, Q71, Q101, Q102, Q111, Q112, Q181, Q182, Q212, Q232, Q242, Q252, Q262
51	0307 0040	2	● A	NPN-NF-Transistor BC849B	PMXB56EN	SMD	no	Q121, Q131
52	0307 0032	5	● A	MOSFET_N,PMXB56EN,SOT-1215,NXP N-Kanal MOSFET;PMXB56EN;30V;2.2A;0.1R	PMV65XP	SMD	yes	Q211, Q231, Q241, Q251, Q261
53	0307 0031	1	● A	P-Channel-MOS-Fet P-Kanal-MOS-Fet	PMV30UN2	SMD	yes	Q271
54	0257 0000	30	● A	N-Channel-MOS-Fet PMV30UN2R N-Kanal-MOS-Fet PMV30UN2R	=Value	SMD	yes	R6, R7, R45, R81, R84, R85, R86, R87, R91, R94, R95, R96, R97, R163, R166, R167, R168, R195, R198, R224, R271, R272, R288, R610, R611, R710, R711, R1834, R1845, R2712
55	0257 4100	31	● A	Chip-R, Zero-Ohm-Resistor Chip-R, Null-Ohm-Widerstand	=Value	SMD	yes	R11, R46, R67, R77, R101, R111, R122, R132, R161, R162, R191, R197, R217, R221, R222, R233, R243, R253, R263, R274, R275, R276, R277, R1825, R1827, R1831, R1835, R1837, R1838, R2711, R2715
56	0257 3511	1	● A	Res.,10K,1%,100ppm, 0402 D10-CRCW0402 100	=Value	SMD	yes	R47
57	0257 4200	9	● A	Chip resistor 5.11 kOhm 1% 100ppm/K Chip Widerstand 5.11 kOhm 1% 100ppm/K	=Value	SMD	yes	R51, R54, R104, R109, R114, R119, R279, R1911, R2716
58	0257 2100	9	● A	Resistor,20 KOhm 1% D10-CRCW0402 100	=Value	SMD	yes	R52, R56, R232, R242, R252, R262, R515, R2729, R2730
59	0257 2100	9	● A	Resistor,100R,1%,100ppm,thin film, 0402 Resistor,100R,1%,100ppm,thin film, 0402	=Value	SMD	yes	R53, R55, R107, R117, R2719
60	0257 4150	5	● A	Res.,TF,15KOhm,1%,100ppm/K,0402,Vishay Chip Widerstand 15 kOhm 1% 100ppm/K	=Value	SMD	yes	R57, R59, R124, R134, R193, R289, R513, R2811
60	0257 6100	8	● A	Resistor 1MOhm, 1%, TK100 Widerstand 1MOhm, 1%, TK100	=Value	SMD	yes	

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61	0257 3100	10	● A	Chip Resistor 1.0 kOhm 1% 100ppm/K Chip Widerstand 1.0 kOhm 1% 100ppm/K	=Value	SMD	yes	R58, R61, R66, R71, R76, R164, R165, R278, R1826, R1828
62	0257 5100	18	● A	Res.,100K,1%,100ppm,0402 D10-CRCW0402 100	=Value	SMD	yes	R68, R78, R123, R133, R211, R215, R216, R218, R234, R244, R254, R264, R510, R512, R1843, R1844, R1846, R1847
63	0254 3505	4	● A	Mini-Melf SMM0204 5,05k Ohm; 0,1%, Tk25 Mini-Melf SMM0204 5,05k Ohm; 0,1%, Tk25	=Value	SMD	yes	R69, R79, R82, R92
64	0257 3215	4	● A	Res.,2.15kOhm,1%,100ppmK, 0402,VISHAY Res.,2.15kOhm,1%,100ppmK, 0402,VISHAY	=Value	SMD	yes	R83, R93, R105, R115
65	0257 4619	4	● A	Chip resistor 61.9 kOhm 1% 100ppm/K Chip Widerstand 61.9 kOhm 1% 100ppm/K	=Value	SMD	yes	R102, R106, R112, R116
66	0257 4402	6	● A	Res,TF,40.2KOhm,1%,100ppm/K,0402,Vishay Chip Widerstand 40.2 kOhm 1% 100ppm/K	=Value	SMD	yes	R103, R113, R231, R241, R251, R261
67	0257 5332	3	● A	Chip resistor 332 kOhm 1% 100ppm/K Chip Widerstand 332 kOhm 1% 100ppm/K	=Value	SMD	yes	R108, R118, R2710
68	0257 5249	5	● A	Chip resistor 249 kOhm 1% 100ppm/K Chip Widerstand 249 kOhm 1% 100ppm/K	=Value	SMD	yes	R121, R131, R214, R1010, R1110
69	0257 7100	1	● A	Chip-R 10 M SMD 0402 Chip-R 10 M SMD 0402	=Value	SMD	yes	R192
70	0257 6560	2	● A	Chip Resistor 5.6 MOhm Chip Widerstand 5.6 MOhm	=Value	SMD	no	R194, R196

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71	0257 4249	1	● A	Chip resistor 24.9 kOhm 1% 100ppm/K Chip Widerstand 24.9 kOhm 1% 100ppm/K	=Value	SMD	yes	R213
72	0257 3330	1	● A	Resistor, 3.3K, 1%, thick film, 0402 Resistor, 3.3K, 1%, thick film, 0402	=Value	SMD	no	R273
73	0257 3249	1	● A	Chip resistor 2.49 kOhm 1% 100ppm/K Chip Widerstand 2.49 kOhm 1% 100ppm/K	=Value	SMD	yes	R284
74	0257 1102	2	● A	Chip resistor 10.2 Ohm 1% 100ppm/K Chip Widerstand 10.2 Ohm 1% 100ppm/K	=Value	SMD	yes	R287, R2810
75	0257 1270	4	● A	Chip Resistance 27.0Ohm 1% 100ppm/K Chip Widerstand 27.0Ohm 1% 100ppm/K	=Value	SMD	yes	R290, R291, R292, R293
76	0257 4715	1	● A	Chip resistor 71.5 kOhm 1% 100ppm/K Chip Widerstand 71.5 kOhm 1% 100ppm/K	=Value	SMD	yes	R511
77	0257 5174	1	● A	Res.,174kOhm,1%,100ppmK,0402,Vishay Res.,174kOhm,1%,100ppmK,0402,Vishay	=Value	SMD	yes	R514
78	0254 4357	4	● A	Mini-Melf Resistor 35,7k 0,1% 25ppm/K Mini-Melf Widerst. 35,7k 0,1% 25ppm/K	=Value	SMD	yes	R612, R712, R819, R918
79	0257 2487	6	● A	Res.,TF,487Ohm,1%,100ppm/K,0402,Vishay Chip Widerstand 487 Ohm 1% 100ppm/K	=Value	SMD	yes	R1839, R1840, R1841, R1842, R2713, R2714
80	0352 0282	4	● A	Photo-MOS relay Photo-MOS Koppler	VO1400AEFTR	SMD	yes	S61, S63, S71, S73
81	0183 0922	4	● A	Thermocouple contact spring Kontaktfeder	Contact Spring	THT	no	S62, S64, S72, S74

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82	0305 0077	1	● A	Crystal,24.0MHz,15ppm;3.2x2.5mm,Seiko Quarz;24.0MHz,15ppm;3.2x2.5mm	TSX-3225 24.0000MF15X- AC3	SMD	no	Y191
82		467	● Status			79 SMD 3 THT		

● **Design Status**