



Type Approval Certificate

Germanischer Lloyd

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No.	4484307 HH
Company	Sütron electronic GmbH Kurze Str. 29 70794 Filderstadt, GERMANY
Product Description	Operator Control Panels
Type	Slim Line: BTM03/05/07/21AM/21AS, BTM70AT, TPM11AM/AT, TPM21AM/AS/AT, TPM70AT, TPM104AT; emPower Line: TPM057M/S/T, TPM104/121/151T,
Environmental Category	C, EMC1
Technical Data / Range of Application	Power supply: 24V DC Processor: ARM9, 200 MHz (Slim Line); Intel XScale, 400-/806 MHz (emPower Line) Flash: 16 -1 Gbyte; SDRAM: 32 - 128 MByte SRAM (Li-Batt.backup): 512KByte (Slim Line); 1 MByte (emPower Line) Compact Flash: none (Slim Line); Type I or II (emPower Line) Net-Communication: Ethernet 10/100 Mbit USB: only for Service / Download Protection Class: IP65 (at the front), IP20 (at the back) HMI-Slim Line: Operating System: Windows CE 5.0 alone or with TSwin 4.X or Microbrowser BTM03AM/70xyy0: 3" FSTN-Display, 160 x 80, 18 key BTM05AM/70xyy0: 3" FSTN-Display, 160 x 80, 30 key BTM07AM/70xyy0: 3,8" FSTN-Display, 320 x 240 39 key BTM21AM/70xyy0: 5,7" FSTN-Display, 320 x 240 40 key BTM21AS/70xyy0: 5,7" C-STN-Display, 320 x 240 40 key
Test Standard	Guidelines for the Performance of Type Approvals Part 2, Edition 2003
Documents	Test report : E70974A, E70974B, E70974C, E70974D, U70974A, U70974B, U70974C, U70974D. E71773A/-B, U71773A/-B, E081477E, U081477E1. Documents and Drawings according to submitted file. GL Software Questionnaire acc. class 3, Edition 1996, dated 2008-02-08
Remarks	Application software has to be approved separately.
Valid until	2014-02-09
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File No.	I.B.08
Hamburg,	2009-02-10

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BTM70AT/70xyy0:	7" TFT-Display,	800 x 480	40 key
TPM11AM/70xyy1:	3,8" FSTN-Display,	320 x 240,	Touch
TPM11AT/70xyy1:	3,5" TFT-Display,	320 x 240,	Touch
TPM11AM/70xyy2:	3,8" FSTN-Display,	320 x 240,	Touch
TPM11AT/70xyy2:	3,5" TFT-Display,	320 x 240,	Touch
TPM21AM/70xyy0:	5,7" FSTN-Display,	320 x 240,	Touch
TPM21AS/70xyy0:	5,7" C-STN-Display,	320 x 240,	Touch
TPM21AT/70xyy0:	5,7" TFT-Display,	320 x 240,	Touch
TPM70AT/70xyy0:	7" TFT-Display,	800 x 480,	Touch
TPM104AT/70xyy0:	10,4" TFT-Display,	640 x 480,	Touch

HMI-Slim Line with wide dimming LCD:

Operating System: Windows CE 5.0 alone or with TSwin 4.X or Microbrowser

TPM11AM/02xyy1:	3,8" FSTN-Display,	320 x 240,	Touch
TPM21AM/02xyy0:	5,7" FSTN-Display,	320 x 240,	Touch
TPM21AS/02xyy0:	5,7" C-STN-Display,	320 x 240,	Touch
TPM70AT/02xyy0:	7" TFT-Display,	800 x 480,	Touch

x = memory = 1 = 16MByte Flash, 32MByte SDRAM, 512KByte SRAM

2 = 32MByte Flash, 64MByte SDRAM, 512KByte SRAM

3 = 64MByte Flash, 128MByte SDRAM, 512KByte SRAM

yy = color front (00 – 89)

HMI-emPower Line:

Operating System: Windows CE 5.0 alone or with TSwin 4.X or Microbrowser

TPM057M-10/1201xyy0:	5,7" FSTN-Display,	320 x 240,	Touch
TPM057S-10/1201xyy0:	5,7" C-STN-Display,	320 x 240,	Touch
TPM057T-10/1201xyy0:	5,7" TFT-Display,	320 x 240,	Touch
TPM104T-10/1201xyy0:	10,4" TFT-Display,	640 x 480,	Touch
TPM121T-10/1201xyy0:	12,1" TFT-Display,	800 x 600,	Touch
TPM151T-10/1201xyy0:	15" TFT-Display,	1024 x 768,	Touch
TPM104XiT-10/3201xyy0:	10,4" TFT-Display,	640 x 480,	Touch
TPM121XiT-10/3201xyy0:	12,1" TFT-Display,	800 x 600,	Touch
TPM151XiT-10/3201xyy0:	15" TFT-Display,	1024 x 768,	Touch

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HMI-emPower Line with wide Dimming LCD:

Operating System: Windows CE 5.0 alone or with TSwin 4.X or Microbrowser

TPM104T-10/1202xyy0:	10,4" TFT-Display,	640 x 480,	Touch
TPM121T-10/1202xyy0:	12,1" TFT-Display,	800 x 600,	Touch
TPM151T-10/1202xyy0:	15" TFT-Display,	1024 x 768,	Touch
TPM104XiT-10/3202xyy0:	10,4" TFT-Display,	640 x 480,	Touch
TPM121XiT-10/3202xyy0:	12,1" TFT-Display,	800 x 600,	Touch
TPM151XiT-10/3202xyy0:	15" TFT-Display,	1024 x 768,	Touch

HMI-emPower Line with Interbus Master:

Operating System: Windows CE 4.2 with ProVisIT 2.3 and ProConOS 1.41

TPM057M/1050xyy0:	5,7" FSTN-Display,	320 x 240,	Touch + Function Keys
TPM057S/1050xyy0:	5,7" C-STN-Display,	320 x 240,	Touch + Function Keys
TPM057T/1050xyy0:	5,7" TFT-Display,	320 x 240,	Touch + Function Keys
TPM104T/1050xyy0:	10,4" TFT-Display,	640 x 480,	Touch + Function Keys
TPM121T/1050xyy0:	12,1" TFT-Display,	800 x 600,	Touch + Function Keys
TPM151T/1050xyy0:	15" TFT-Display,	1024 x 768,	Touch + Function keys
TPM057M-10/1050xyy0:	5,7" FSTN-Display,	320 x 240,	Touch
TPM057S-10/1050xyy0:	5,7" C-STN-Display,	320 x 240,	Touch
TPM057T-10/1050xyy0:	5,7" TFT-Display,	320 x 240,	Touch
TPM104T-10/1050xyy0:	10,4" TFT-Display,	640 x 480,	Touch
TPM121T-10/1050xyy0:	12,1" TFT-Display,	800 x 600,	Touch
TPM151T-10/1050xyy0:	15" TFT-Display,	1024 x 768,	Touch

x = memory = 4/5 = 32MByte Flash, 64MByte SDRAM, 512/1024KByte S-RAM inkl. Battery

6/9 = 32/64MByte Flash, 64/128MByte SDRAM, 128KByte NV-RAM

7 = 32MByte Flash, 64MByte SDRAM

8/A = 64MByte Flash, 64/128MByte SDRAM, 1024KByte S-RAM inkl. Battery

C = 1 Gbyte Flash, 128 Mbyte SDRAM, 1024 kByte SRAM m. Lith.batt.

yy = color front (00 – 89)

Operating System is described on type plate:

80859.3xx: open platform only with Windows CE 5.0

80850.4xx: TSwin 4.X

80872.4xx: Microbrowser

xx = HW-Version (Slim Line / emPower Line)

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