



# 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. 7566409 HH

Company ELEKTRONIK-SYSTEME LAUER GmbH & Co. KG  
Kelterstraße 59  
72669 Unterensingen, GERMANY

Product Description Panel PCs, Monitors: Nautic series

Type MTe (T)150(E), MTe (T)170(E), MTe (T)190(E), EPC box C2D, EPC (T)150 C2D, EPC (T)170 C2D, EPC (T)190 C2D

Environmental Category C,(A); EMC1

Technical Data / Range of Application	Monitors 15": MTe 150 Nautic AC, MTe 150 Nautic DC, MTe 150E Nautic AC, MTe 150E Nautic DC, MTe T150 Nautic AC, MTe T150 Nautic DC, MTe T150E Nautic AC, MTe T150E Nautic DC.	Monitors 17": MTe 170 Nautic AC, MTe 170 Nautic DC, MTe 170E Nautic AC, MTe 170E Nautic DC, MTe T170 Nautic AC, MTe T170 Nautic DC, MTe T170E Nautic AC, MTe T170E Nautic DC.
	Monitors 19": MTe 190 Nautic AC, MTe 190 Nautic DC, MTe 190E Nautic AC, MTe 190E Nautic DC, MTe T190 Nautic AC, MTe T190 Nautic DC,	MTe T190E Nautic AC, MTe T190E Nautic DC.  PC-Boxes: EPC box C2D Nautic AC, EPC box C2D Nautic DC.

Test Standard Guidelines for the Performance of Type Approvals Part 2, Edition 2003.

Documents Test report : RMS 01-03 / 2009, RMS 02-03/ 2009, RMS 03-03 / 2009, RMS 04-03 / 2009, MTN 05963.045\_1.09, MTN 05963.046\_1.09, MTN 05963.047\_1.09, MTN 05963.048\_1.09.

Remarks Displays 17" and 19" Environmental Category for front side: A.

Valid until 2014-04-27

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Type Approval Symbol



File No. I.B.05

Hamburg, 2009-09-19

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Panel PC 15":

EPC 150 C2D Nautic AC,  
EPC 150 C2D Nautic DC,  
EPC T150 C2D Nautic AC,  
EPC T150 C2D Nautic DC.

Panel PC 17":

EPC 170 C2D Nautic AC,  
EPC 170 C2D Nautic DC,  
EPC T170 C2D Nautic AC,  
EPC T170 C2D Nautic DC.

Panel PC 19":

EPC 190 C2D Nautic AC,  
EPC 190 C2D Nautic DC,  
EPC T190 C2D Nautic AC,  
EPC T190 C2D Nautic DC.

T-types: Resistive Touchscreen,  
Monitor E-Types: Ethernet port,  
Power supply AC types: 230V AC,  
Power supply DC types: 24V DC,  
Degree of protection: IP65 (front), IP20 (rear side).

All Displays dimmable by front keys.

Marine PC - EPC BOX C2D Nautic:

-Intel Core2Duo 2.2GHz  
-2/4 GB RAM  
-2x PS/2 (keyboard, mouse)  
-HDD automotive 80GB/CFC 2...16GB  
-2x RS232 interface  
-4x USB 2.0  
-2x Ethernet 10/100/1000 MBps.

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