BNWAS3000 System Function Requirement Sheet								
Hardware (units or modules):							DECK	MA GmbH
					YES	NO	COUNT	CHFCK*
Watch Alarm	Main Unit:				X		1	
The "Watch Alarm Ma	in Unit" is always need	ed. The count in here m	ust set to "1". This uni	t can work alone. It	^		1	
will also charge the backup batteries and serve power switchover function. It has also one mushroom pushbutton- for "Reset" and "Emergency Call".					YES	NO	COUNT	CHECK
Repeater Unit								
The "Repeater Unit" is optional. This unit informs and alarms persons who are not in the immediate vicinity of								
the Watch Alarm Main Unit. It will be normally mounted separated (e.g. 1st officer cabin). On this unit runs the same software, but with some limitations (see technical documentation for details).								
					YES	NO	COUNT	CHECK
Selector Unit:							1	
The "Selector Unit " is also optional. This unit can be used to switch between various Repeater Units (with the same ID-number). 4 locations for 4 repeater units can be used by turning the key-switch to the desired location. — Sample locations could be captain's cabin or first officer or chief engineer								
					YES	NO	COUNT	CHECK
Reset Unit:								
The "Reset Unit " is recommended! It is an external mushroom pushbutton with LED illumination and "Emergency								
Call" alarm function. Without a "booster unit", up to 3 external reset buttons can be connected to the system								
(depends on overall system configuration). The illumination color can be defined by dip-switches on the back.								
moisture- or harsh environments.								
Software functions and data handover (to rules and class):								
The "Watch Alarm Main Unit" provides and supplement seperate data handover and software controlled								
functions. This means several serial incoming and outgoing telegrams, relay outputs, reset sensor options, auto								
variant from ship to ship. For instance, if there is no GPS head unit installed, no time sync function can be								
installed (or used)					VEC	NO	COUNT	CUECK
					YES	NU	COUNT	CHECK
External Reset Function over KS485/KS232 Interface:							1	
connected through RS485 (long distance / 500m) or RS232 interface (short distance / 3-5m). The transfer rate is								
slow (4800 baud 8N1) with NMEA 0183 protocol. The relevant information are filtered and interpreted by a slave microcontroller and will be forwared to the main unit. An auto pilot (as example) can be connected here to reset the unit from time to time. No Emergency function from here.								
					YES	NO	COUNT	CHECK
Emergency Call reporting function (data handover):							1	
If an "Emergency Call" is active (or initiated), an event and ALR message is outputted through serial out 1 and/or								
serial out 2 interface p	ort. This can be used to All mushroom pushbut	o handover this to real i ton can also initiate this	(external) "emergency- s call event	call- systems" or "ship-				
					YES	NO	COUNT	CHECK
Time sync fun	ction (GPS tim	e read-in / IM	O Resolution)	•	-		1	
The time and date can	also be read in from a	n external system. like (normally present) GPS	Global Positioning				
System) based electronics on board. In this case, time and date information are also filtered out of the RMC-								
must be set in UTC (GMT). By default this is deactivated. If activated, an error occours, if no telegrams can be								
read in.					YES	NO	COUNT	CHECK
VDR messages output ontion:					X		1	
All messages and events will be outputted from serial port #1 or #2. This ports can be freely used - or not. In case					~		-	
this option will be used, the data handover is 4.800 baud with 8N1 and NMEA protocol. Alarm messages are								
marked nere with "SBNALK," and fault events like faults, resetted faults or emergency calls are marked with								
Dear Customer: Please fill out this requirement sheet carefully in discussion with the shipyard or ship owner and the classes. It will reflect working hours and therefore overall engineering costs for your project. Please undersign this document to have a reliable startup condition!								
CHECK* The green boxes will be filled out from DECKMA-GmbH only. Do not make any markings here! "X" marks the needed function								
								Version 1.0
Name:		Date:		Sign:				