

## SENSOR LIST AND TEST PROGRAM M/S TUNADAL

**System**

- A - Sea water
- B - Fresh water and Fuel valve cooling
- C - Lubricating oil
- D - Fuel oil
- E - Air
- F - Auxiliary engines
- G - Electrical systems
- J - Blige
- K - Gear and Kallewa
- M - Boilers
- N - Miscellaneous

**Alarm group**

- 1 - Stop main engine
- 2 - Reduce load H.D.
- 3 - Fault M.E. man. system
- 4 - Fault aux. engines
- 5 - Fire alarm, engine room
- 6 - Common alarm

**Test**

- 1 - Stop main engine
- 2 - Reduce load H.D.
- 3 - Fault M.E. man. system
- 4 - Fault aux. engines
- 5 - Fire alarm, engine room
- 6 - Common alarm

 Examined and approved  
in respect of rules for  
Control Engineering  
(See letter)


AUTRONICA SVERIGE+		REV. 1A1 / PÅVERKANDE AVSEER	1.000	DAM
Företagsplats 12	421 31 Västra Frölunda			
Telefoni 031-48 40 41				
Telefoni 031-48 40 42				
Telefoni 031-48 40 55				
LÄCKE	VÄRANDEL			
		SKALA		
S. L. 1.000	A. 1.000			
20.10.81	20.10.81			

Sensor name	Type	No	Set point			Output	Description	Test date	Last test	Last date
			Set	High	Low					
Low pressure Fuel oil		1	Autonics	0.200	0.165 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel oil (lift)		2	Autonics	0.200	0.165 atm	1, atm	Reduce pressure			
		3								
High temperature Fuel oil (lift)		1	Honeywell	+25°	+90° C	-	Raise temperature			
		2								
High temperature Fuel oil tank		1	Honeywell	+25°	+90° C	-	Raise temperature			
		2								
Low pressure Fuel oil tank		1	Autonics	0.200	0.165 atm	1, atm	Reduce pressure			
		2								
Low level Fuel oil tank AFT MS		1	Autonics	25 sec	0.01/0.03	-	Lower level			
		2								
Low level Fuel oil tank BWD MS		1	Autonics	25 sec	0.01/0.03	-	Lower level			
		2								
Low level Diesel tank rear tank		1	Autonics	25 sec	0.01/0.03	-	Lower level			
		2								
Low level Diesel tank oil tank		1	Autonics	25 sec	0.01/0.03	-	Lower level			
		2								
High oil separator fore		1	Honeywell	+20	+90° C	-	Raise/ reduce temp.			
		2								
High/low temperature Fuel oil separator fore		1	Honeywell	+20	+90° C	-	Raise/ reduce temp.			
		2								
Low pressure Fuel oil separator aft		1	Autonics	0.200	0.165 atm	1, atm	Reduce pressure			
		2								
High/low temperature Fuel oil separator aft		1	Honeywell	+20	+90° C	-	Raise/ reduce temp.			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								

Sensor name	Type	No	Set point			Output	Description	Test date	Last test	Last date
			Set	High	Low					
High temperature Fuel oil		1	Autonics	+25	+90° C	-	Raise temperature			
		2								
High temperature Fuel oil (lift)		1	Autonics	+25	+90° C	-	Raise temperature			
		2								
Low level Fuel oil tank		1	Autonics	25 sec	0.01/0.03	-	Lower level			
		2								
Low level Fuel oil tank AFT MS		1	Autonics	25 sec	0.01/0.03	-	Lower level			
		2								
Low level Fuel oil tank BWD MS		1	Autonics	25 sec	0.01/0.03	-	Lower level			
		2								
Low level Fuel oil tank rear tank		1	Autonics	25 sec	0.01/0.03	-	Lower level			
		2								
Low level Fuel oil tank oil tank		1	Autonics	25 sec	0.01/0.03	-	Lower level			
		2								
High oil separator fore		1	Honeywell	+20	+90° C	-	Raise/ reduce temp.			
		2								
High/low temperature Fuel oil separator fore		1	Honeywell	+20	+90° C	-	Raise/ reduce temp.			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
High/low temperature Fuel oil separator aft		1	Honeywell	+20	+90° C	-	Raise/ reduce temp.			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								

Sensor name	Type	No	Set point			Output	Description	Test date	Last test	Last date
			Set	High	Low					
Low pressure Fuel oil		1	Autonics	0.200	0.165 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel oil (lift)		2	Autonics	0.200	0.165 atm	1, atm	Reduce pressure			
		3								
High temperature Fuel oil (lift)		1	Honeywell	+25	+90° C	-	Raise temperature			
		2								
High temperature Fuel oil tank		1	Honeywell	+25	+90° C	-	Raise temperature			
		2								
Low level Fuel oil tank AFT MS		1	Autonics	25 sec	0.01/0.03	-	Lower level			
		2								
Low level Fuel oil tank BWD MS		1	Autonics	25 sec	0.01/0.03	-	Lower level			
		2								
Low level Fuel oil tank rear tank		1	Autonics	25 sec	0.01/0.03	-	Lower level			
		2								
Low level Fuel oil tank oil tank		1	Autonics	25 sec	0.01/0.03	-	Lower level			
		2								
High oil separator fore		1	Honeywell	+20	+90° C	-	Raise/ reduce temp.			
		2								
High/low temperature Fuel oil separator fore		1	Honeywell	+20	+90° C	-	Raise/ reduce temp.			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
High/low temperature Fuel oil separator aft		1	Honeywell	+20	+90° C	-	Raise/ reduce temp.			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
High oil separator fore		1	Honeywell	+20	+90° C	-	Raise/ reduce temp.			
		2								
High/low temperature Fuel oil separator fore		1	Honeywell	+20	+90° C	-	Raise/ reduce temp.			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
High/low temperature Fuel oil separator aft		1	Honeywell	+20	+90° C	-	Raise/ reduce temp.			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
Low pressure Fuel air mix...		1	Autonics	25 sec	0.1-0.2 atm	1, atm	Reduce pressure			
		2								
High oil separator fore		1	Honeywell	+20	+90° C	-	Raise/ reduce temp.			
		2								
High/low temperature Fuel oil separator fore		1	Honeywell	+20	+90° C	-	Raise/ reduce temp.			

MARCH POINT	NAME	TYPE	RANGE	SET POINT	TESTING METHOD	REMARKS	TESTS				
							DET	DET	DET	DET	DET
Low pressure Fuel oil system	P1 6	Danfoss	RT 2°	0,2 - 6 atm	1,2 atm	Reduce pressure					
High temperature Fuel oil system	P2 6	Danfoss	RT 117	+70 - +150°	112°	Reduce temperature					
High/low level settlingtank STB0	P3 6 sec	Mobrey	SD1/PO2			raise/lower level					
High/low level settlingtank STB1	P4 6 sec	Mobrey	SD1/PO2			raise/lower level					
High temperature settlingtank STB1	P5 6	Danfoss	RT 106	+20 - +90°	80°	raise temperature					
High temperature settlingtank fort	P6 6	Danfoss	RT 106	+20 - +90°	80°	raise temperature					
Low level service tank STB0	P7 6 sec	Mobrey	SD1/PO2			Lower level					
Low level Service tank fort	P8 6 sec	Mobrey	SD1/PO2			Lower level					
High level Fuel oil tank	P9 6 sec	Mobrey	SD1/PO2			raise level					
Fault Fuel oil separator fort	P10 6										
High/Low temperature Fuel oil separator fort	P11 6	Danfoss	RT 117	+70 - +150°	95°	raise/temperature					
High/Low temperature Fuel oil separator aft	P12 6	Danfoss	RT 106	+20 - +90°	80°	raise/temperature					
High/Low temperature Fuel oil separator aft	P13 6	Danfoss	RT 106	+20 - +150°	95°	raise/temperature					
High/Low temperature Fuel oil separator aft (service oil, lube oil)	P14 6	Danfoss	RT 106	+20 - +90°	75°	raise/temperature					
Level oil separator mult	P15 6	Ventilalia									
High/low pressure Starting air	P16 3										
Low pressure manoeuvring air	P17 3 sec	Danfoss	RT 110	1 - 10 atm		reduce pressure					

→ AUTONOMA SVERIGE →

Frånvarande M.	401 N. Västra Förorten
Frånvarande S.	401 N. Västra Förorten
Tillstånd M/A/S	Tillstånd M/A/S
R.M.S.	KONTAKTAD
H.D.s	KONTAKTAD
OBJET	Autronica
SKALA	1/100,00
DET	M/S TILLÄDAL
	A3-02/3

Sensor list and test program

MARCH POINT	NAME	TYPE	RANGE	SET POINT	TESTING METHOD	REMARKS	TESTS				
							DET	DET	DET	DET	DET
Fault Inlet/air frequency	P1 6	Lutronics	SD1-SD1/1			raise/lower voltage lower frequency					
Residual load disconnected	P2					blow circuit breaker					
Voltage failure power supply	P3 6					remove fuse					
Volt transient	P4 6	Lutronics	SD1-SD1/1			remove fuse					
Volt transient	P5 6					remove battery short off rectifier					
Volt transient rectifier	P6 6					remove fuse					
High level fire well aft and port	P7 6 sec	Mobrey	SD1/PO2			raise level arm					
High level fire well center and port	P8 6 sec	Mobrey	SD1/PO2			raise level arm					
Low pressure lube oil	P9 6	Dewe	RT 310	1,5 atm		reduce pressure					
High temperature lube oil gear	P10 6	Danfoss	RT 101	+20 - +90°	80°	raise temperature					
Low pressure lube oil gear	P11 6	Danfoss	RT 100	+20 - 6 atm	1,5 atm	reduce pressure					
Low pressure lube oil gear	P12 6	Danfoss	RT 100	+20 - 6 atm	1,5 atm	reduce pressure					
Hydraulic oil Krafva	P13 6 sec	Mobrey	SD2/PO2			lower level					
Low pressure hydraulic oil clutches	P14 6	Danfoss	RT 117	10 - 30 atm		reduce pressure					
Standby pump standby pump start/stop	P15 6	AUTA									
Standby pump start/stop start/stop	P16 6	AUTA									
Low level lube oil gear	P17 6 sec	Mobrey	SD2/PO2			lower level					

→ AUTONOMA SVERIGE →

Frånvarande M.	401 N. Västra Förorten
Frånvarande S.	401 N. Västra Förorten
Tillstånd M/A/S	Tillstånd M/A/S
R.M.S.	KONTAKTAD
H.D.s	KONTAKTAD
OBJET	Autronica
SKALA	1/100,00
DET	M/S TILLÄDAL
	A3-02/5

Sensor list and test program

MARCH POINT	NAME	TYPE	RANGE	SET POINT	TESTING METHOD	REMARKS	TESTS				
							DET	DET	DET	DET	DET
Low pressure lube oil	P1 4	Danfoss	RT 200	0,2 - 6 atm	1,5 atm	raise pressure					
High temperature lube oil eng fort	P2 4	Mobrey	SD1/PO2	+70 - +150°	120°	raise temperature					
High exhaust temperature auxiliary burner standard	P3 4	Autronica	RT-15	0-40°	50°	lower set point					
High temperature lube outlet AUX eng STB0	P4 4	Danfoss	RT-105	+20°-+90°	70°	raise temperature					
Fault Safety system AUX eng STB0	P5 4										
Low pressure lub oil eng center	P6 4	Danfoss	RT-200	0,2 - 6 atm	1,5 atm	raise pressure					
High temperature lub oil AUX eng center	P7 4	Mobrey	SD1/PO2	+70°-+150°	70°	raise temperature					
High exhaust temperature auxiliary burner center	P8 4	Autronica	RT-15	0-40°	50°	lower set point					
High temperature lube outlet AUX eng Fort	P9 4	Danfoss	RT-105	+20°-+90°	70°	raise temperature					
Fault Safety system AUX eng Fort	P10 4										
Circuit breaker generator disengaged	P11 4										

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Frånvarande M.	401 N. Västra Förorten
Frånvarande S.	401 N. Västra Förorten
Tillstånd M/A/S	Tillstånd M/A/S
R.M.S.	KONTAKTAD
H.D.s	KONTAKTAD
OBJET	Autronica
SKALA	1/100,00
DET	M/S TILLÄDAL
	A3-02/4

Sensor list and test program

MARCH POINT	NAME	TYPE	RANGE	SET POINT	TESTING METHOD	REMARKS	TESTS				
							DET	DET	DET	DET	DET
High pressure boiler	P1 6	Danfoss	RT 110	1 - 10 atm	1,5 atm	raise pressure					
Low pressure boiler	P2 6	Danfoss	RT 200	0,2 - 6 atm	1,5 atm	reduce pressure					
High temperature l.c. donkey boiler	P3 6 sec	Danfoss	RT 107	+70 - +150°	120°	raise temperature					
High temperature l.c. donkey boiler	P4 6 sec	SHAR	INT 101			raise/lower level					
Burner failure donkey boiler	P5 6										
High/low level shuttle boiler	P6 6 sec	SHAR	INT 104			raise/lower level					
Low level feed water tank	P7 6 sec	Mobrey	SD1/PO2			lower level					
Low level feed water tank	P8 6 sec	Mobrey	SD1/PO2			lower level					
High temperature seawater air STB0 min	P9 2	Danfoss	RT 10	-20 - +90°	70°	raise temperature					
High temperature seawater air STB0 fort	P10 2	Danfoss	RT 10	-20 - +90°	70°	raise temperature					
High temperature chassis central	P11 2	Autronica	RT-12								
Fault l.c. detector	P12 2	Graviner	INT 4			simulate on det.					
High level sewage tank	P13 6 sec	Mobrey	SD1/PO2			raise level					
High level sludge tank	P14 6 sec	Mobrey	SD1/PO2			raise level					
Fire alarm alarm room	P15 5	Autronica	SD-12			simulate fire alarm					
Low level hatch cover system	P16 6 sec	Mobrey	SD1/PO2			lower level					
High level hull room forward	P17 6 sec					raise level					

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Frånvarande M.	401 N. Västra Förorten
Frånvarande S.	401 N. Västra Förorten
Tillstånd M/A/S	Tillstånd M/A/S
R.M.S.	KONTAKTAD
H.D.s	KONTAKTAD
OBJET	Autronica
SKALA	1/100,00
DET	M/S TILLÄDAL
	A3-02/5

Sensor list and test program

MARCH POINT	NAME	TYPE	RANGE	SET POINT	TESTING METHOD	REMARKS	TESTS				
							DET	DET	DET	DET	DET
Low pressure Fuel oil system	ST 6	Danfoss	RT 2°	0,2 - 6 atm	1,2 atm	Reduce pressure					
High temperature Fuel oil system	ST 6	Danfoss	RT 117	+70 - +150°	112°	Reduce temperature					
High/low level settlingtank STBD	ST 6 sec	Nobrey	SD1/POZ			Haise/low level					
High/low level settlingtank FRT	ST 6 sec	Nobrey	SD1/POZ			Haise/low level					
High temperature settlingtank STB	ST 6	Danfoss	RT 106	+20 - +90°	80°	Reduce temperature					
High temperature settlingtank FRT	ST 6	Danfoss	RT 106	+20 - +90°	80°	Reduce temperature					
Low level service tank STBD	ST 6 sec	Nobrey	SD1/POZ			Lower level					
Low level Service tank FRT	ST 6 sec	Nobrey	SD1/POZ			Lower level					
High level Fuel oil tank	ST 6 sec	Nobrey	SD1/POZ			Lower level					
Fault Fuel oil separator fore	ST 6										
High/Low temperature Fuel oil separator fore	ST 6	Danfoss	RT 117	+70 - +150°	95°	Reduce temperature					
High/Low temperature Fuel oil separator aft	ST 6	Danfoss	RT 106	+20 - +30°	20°	Reduce temperature					
High/Low temperature Fuel oil separator aft	ST 6	Danfoss	RT 106	+20 - +150°	95°	Reduce temperature					
High/Low temperature Engine oil separator oil	ST 6	Danfoss	RT 106	+20 - +150°	75°	Reduce temperature					
Level oil separator mult	ST 6	Vent Italia									
High/Low pressure Starting air	ST 3										
Low pressure manoeuvring air	ST 3	Danfoss	RT 116	1 - 10 atm		Reduce pressure					

→ AUTRONICA SVERIGE →

Frånvarande M	✓	Autronica M	✓
401 N. Västra Förorten		401 N. Västra Förorten	
Telenor 010-444 44 44		Telenor 010-444 44 44	
Telenor 010-444 44 55		Telenor 010-444 44 55	
ADAO KONTAKTREDER GÖTEBORG H.D.		ADAO KONTAKTREDER GÖTEBORG H.D.	
R.H.	KONTAKTREDER	GÖTEBORG	H.D.
OBJET	SKALA		
DET 0,00	M/S TITANIA	A3-02/3	DET

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MARCH POINT	NAME	TYPE	RANGE	SET POINT	TESTING METHOD	REMARKS	TESTS				
							DET	DET	DET	DET	DET
Low pressure Lub oil eng STBD	ST 4	Danfoss	RT 200	0,2 - 6 atm	1,5 atm	Reduce pressure					
High temperature Lub oil eng STBD	ST 4	Nobrey	SD1/POZ	+70 - +150°	100°	Reduce temperature					
High/low level settlingtank STBD	ST 4 sec	Autronica	RT-15	0 - 100%	50%	Lower set point					
High/low level settlingtank FRT	ST 4 sec	Autronica	RT-15	0 - 100%	50%	Lower set point					
High temperature settlingtank STB	ST 4 sec	Danfoss	RT 106	+20 - +150°	80°	Reduce temperature					
Fault Safety system AUX eng STBD	ST 4										
Low pressure Lub oil eng center	ST 4	Danfoss	RT-200	0,2 - 6 atm	1,5 atm	Reduce pressure					
High temperature Lub oil eng center	ST 4	Nobrey	SD1/POZ	+70 - +150°	100°	Reduce temperature					
High exhaust temperature Lub oil eng center	ST 4	Autronica	RT-15	0 - 100%	50%	Lower set point					
High temperature P.L. outlet AUX eng FRT	ST 4	Danfoss	RT-105	+20 - +150°	80°	Reduce temperature					
Fault Safety system AUX eng FRT	ST 4										
Circuit breaker generator disconnected	ST 4										

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MARCH POINT	NAME	TYPE	RANGE	SET POINT	TESTING METHOD	REMARKS	TESTS				
							DET	DET	DET	DET	DET
High/Low pressure Starting air	ST 3										
Low pressure manoeuvring air	ST 3	Danfoss	RT 116	1 - 10 atm		Reduce pressure					

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MARCH POINT	NAME	TYPE	RANGE	SET POINT	TESTING METHOD	REMARKS	TESTS				
							DET	DET	DET	DET	DET
Fault Inverter and frequency	ST 6	Autronica	SD1-1/1			Haise/low voltage Lower frequency					
Residual load disconnected	ST 6					Blazing circ breaker					
Voltage failure overvoltage	ST 6					Remove fuse					
Volt overvoltage	ST 6	Autronica	SD1-1/1			Remove fuse					
Battery overvoltage	ST 6					Remove battery short off rectifier					
High level fuel well aft and port	ST 6 sec	Nobrey	SD1/POZ			Remove fuse					
High level fuel well center and port	ST 6 sec	Nobrey	SD1/POZ			Remove fuse					
Low pressure lube oil	ST 6	Dewe	SD 310	1,5 atm		Reduce pressure					
High temperature lub oil gear	ST 6	Danfoss	RT 101	+25 - +100°	80°	Reduce temperature					
Low pressure lube oil gear	ST 6	Danfoss	RT 101	+25 - +100°	80°	Reduce pressure					
High/Low level lube oil gear	ST 6 sec	Danfoss	RT 101	+25 - +100°	80°	Reduce pressure					
Low pressure hydraulic oil	ST 6 sec	Nobrey	SD2/SD40			Lower level					
Low pressure hydraulic oil clutches	ST 6 sec	Danfoss	RT 117	10 - 30 atm		Reduce pressure					
Standby pump standby pump started	ST 6 sec	AUTIA									
Standby pump standby pump started	ST 6 sec	AUTIA									
Low level lub oil gear	ST 6 sec	Nobrey	SD2/SD40			Lower level					

→ AUTRONICA SVERIGE →

Frånvarande M	✓	Autronica M	✓
401 N. Västra Förorten		401 N. Västra Förorten	
Telenor 010-444 44 44		Telenor 010-444 44 44	
Telenor 010-444 44 55		Telenor 010-444 44 55	
ADAO KONTAKTREDER GÖTEBORG H.D.		ADAO KONTAKTREDER GÖTEBORG H.D.	
R.H.	KONTAKTREDER	GÖTEBORG	H.D.
OBJET	SKALA		
DET 0,00	M/S TITANIA	A3-02/5	DET

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MARCH POINT	NAME	TYPE	RANGE	SET POINT	TESTING METHOD	REMARKS	TESTS				
							DET	DET	DET	DET	DET
High pressure monkey boiler	ST 6	Danfoss	RT 110	1 - 10 atm	1,5 atm	Reduce pressure					
Low pressure monkey boiler	ST 6	Danfoss	RT 200	0,2 - 6 atm	1,5 atm	Reduce pressure					
High temperature monkey boiler	ST 6 sec	Danfoss	RT 107	+70 - +150°	120°	Reduce temperature					
High/Low level monkey boiler	ST 6 sec	Nobrey	SD1/POZ			Haise/low level					
Burner failure monkey boiler	ST 6 sec	Autronica	RT 101			Simulate					
High/Low level shuttle boiler	ST 6 sec	Autronica	RT 104			Haise/low level					
Low level feed water tank	ST 6 sec	Nobrey	SD1/POZ			Lower level					
High/Low level feed water tank	ST 6 sec	Nobrey	SD1/POZ			Lower level					
Fire alarm alarm room	ST 6 sec	Autronica	SD-12			Simulate fire alarm					
Low level hatch cover system	ST 6 sec	Nobrey	SD1/POZ			Lower level					
High level hatch room forward	ST 6 sec	Nobrey	SD1/POZ			Lower level					

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