

Commissioning ICCP-System New Touch Screen	V01-NL
---	---------------

Date:	
Engineer:	
Company:	
Shipyard:	
New building nr.:	
Vessel type:	
Location	Salt <input type="checkbox"/>
	Brackish <input type="checkbox"/>
	Fresh <input type="checkbox"/>
Vessel name:	
IMO nr.:	
E-mail Vessel:	
Owner:	
E-mail Owner:	
Tel.-nr. Owner:	
Fax-nr. Owner:	

Before starting up check if the system is turned off!

Materials needed for commissioning:

- Zinc reference electrode
- Rittal key
- Standard electrician toolbox
-

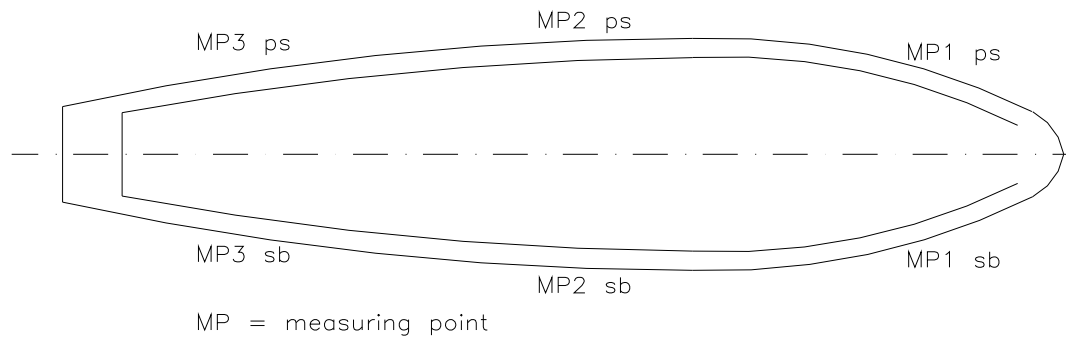
- 1. Make a visual check for the complete system, all connections, any damages to power unit plug boxes or cables.**

Damages:	Description
1)	
2)	
3)	
4)	
5)	

2. Manual potential measurements (mill Volts) on the outside hull, using an Zinc reference electrode. Use the following measuring points MP1 until MP3.

Use the MultiMate, measure mV (DC)

- put the + to the ships hull
- put the - to the Zinc reference electrode



Please fill in the table!

MP1 ps		mV
MP2 ps		mV
MP3 ps		mV
MP1 sb		mV
MP2 sb		mV
MP3 sb		mV

Values have to be between
-550 / -1100 mVolt

3. Check if the power unit negative (ground) cable is connected to the ships structure by means of a bolt connection.

4. Reference cell measurements

From the reference cell a 2x2,5 mm² shielded cable is running to the terminals.

- a. Check if reference cell cables are connected to the right terminals

Potential measurements against Zn reference cell using a multi meter.

Use the multimeter, measure mV (DC)

- put the + to the ships hull
- put the - to the "input ref. (PS or SB)" terminal

Please fill in the table!

Input reference 1 PS	mV
Input reference 1 SB	mV
Input reference 2 PS	mV
Input reference 2 SB	mV

Values have to be between +500 / -50 mVolt

Compare these read-outs (Zn reference cell) to the manual potential read-outs (Ag/AgCl) as taken by point 1.

Check read-outs with the following table:

Ag/AgCl Reference electrode		Zinc Reference electrode
-1250		-200
-1150		-100
-1050		0000
-950		+100
-850		+200
-750		+300
-650		+400
-550		+500
-450		+600

5. Measuring the ICCP-anode terminals

Use the multimeter, measure mV (DC)

- put the + to the anode terminal
- put the - to the ships hull

Please fill in table!

Anode 1 PS	mV
Anode 1 SB	mV
Anode 2 PS	mV
Anode 2 SB	mV

Values have to be > +700 mV

If values are wrong check the connections

Switch on the power unit

An automatic system check will be made. If there are no malfunctions the system will switch over to the standard operation mode.

6. Check the following system settings

For checking or adjusting the settings the "PATH" (buttons and touch screen) you must follow is given:

First log in with the following password 8473 (see below "PATH"), note that with this password you can change all settings.

Before changing any settings write down the original settings!

- Password login
MENU / ? / LOGIN / 8473 / ENTER
- Date and time
MENU / SYSTEM / SETTINGS / DATE TIME
- Maximum shaft potential : 50 Mv
SYSTEM / ALARMS / MAX SHAFT / FILL IN / ENTER
- Potential set point : ON potential -950 mV
UNIT / SETPOINT / FILL IN / ENTER
- Alarm max. potential : -1200 (both PS & SB)
UNIT / MAX. POTENTIAL / FILL IN / ENTER
- Alarm min. potential : -700 (both PS & SB)
UNIT / MIN. POTENTIAL / FILL IN / ENTER
- Temperature alarm : Temp 1 : 80° C
: Temp 2 : 80° C
: Temp 3 : 80° C
SYSTEM / UNIT / MAX. TEMP AMB / FILL IN / ENTER
SYSTEM / UNIT / MAX. TEMP RECT. / FILL IN / ENTER
SYSTEM / UNIT / MAX. TEMP SINK / FILL IN / ENTER

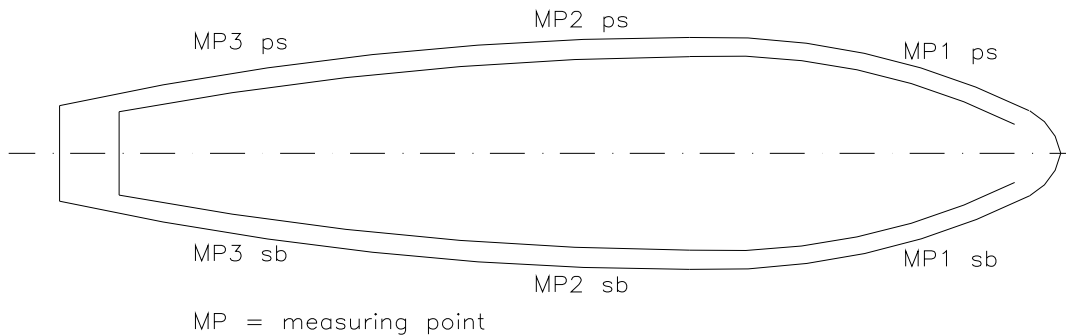
7. Alarms

It is possible that an alarm is generated during the first hour because of the low potentials. This is a normal situation; accept the alarm. Alarm will disappear within 24 hours.

8. Manual potential measurements (mill Volts) at anchor on the outside hull, using an Zinc reference electrode. Use the following measuring points MP1 until MP3.

Use the MultiMate, measure mV (DC)

- put the + to the ships hull
- put the - to the Zinc reference electrode



Please fill in the table!

MP1 ps		mV
MP2 ps		mV
MP3 ps		mV
MP1 sb		mV
MP2 sb		mV
MP3 sb		mV

Values have to be between
-800 / -1100 mVolt

Remarks:

1)	
2)	
3)	
4)	

Please return this filled in protocol to Corrosion & Water-Control bv
Email: service@corrosion.nl Fax +31 (0)79 5931871

9. Potential read-outs

