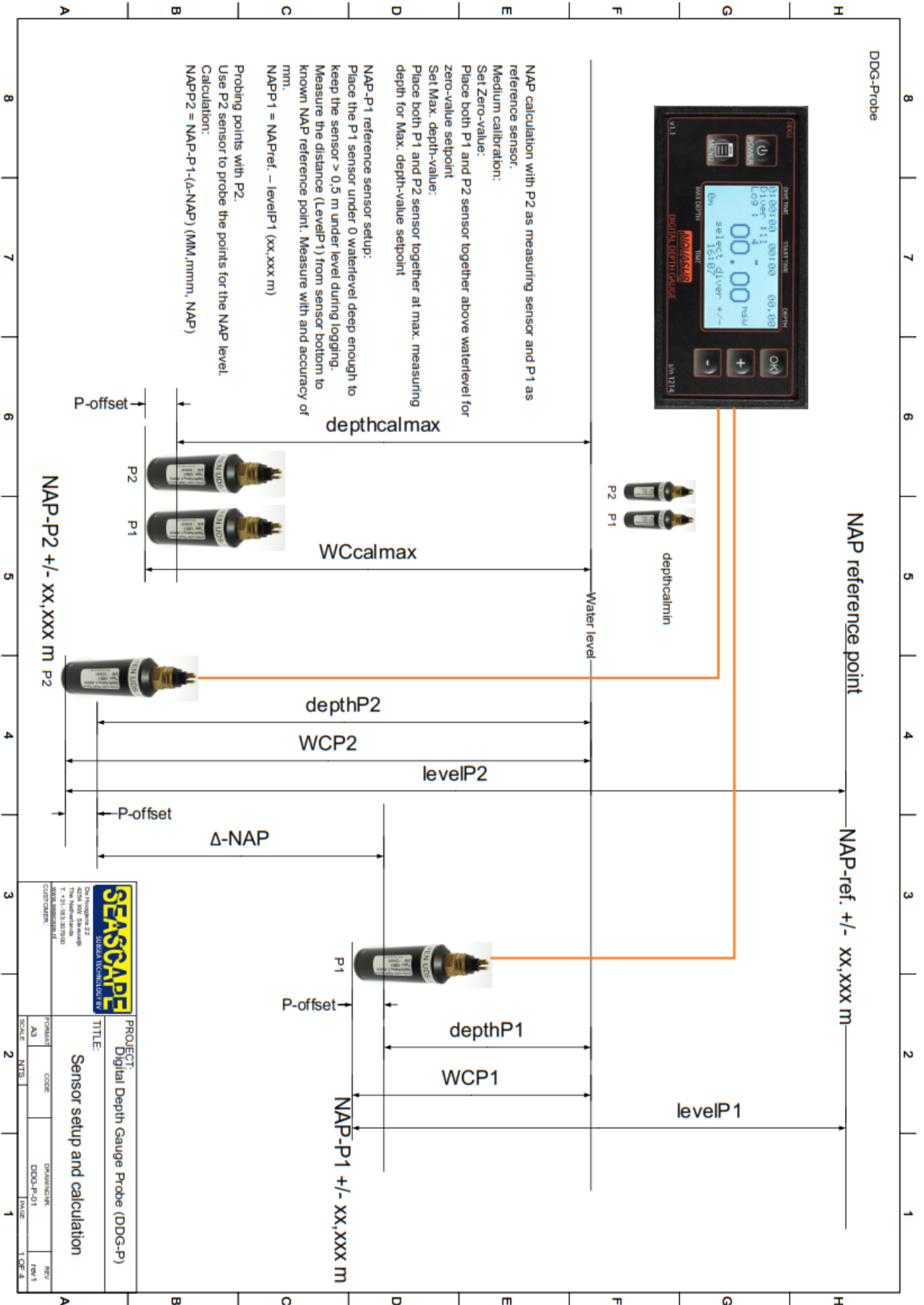


Action	Description	Needed
Installation	<ul style="list-style-type: none"> Connect both probe cables and probes to the SCC-DDG-P side panel Connect external 100-230 vac power 	2x UDS-2 pressure sensor with cables
Power Up	Press Power button to start the DDG	
Calibration preparations	<ul style="list-style-type: none"> Place both sensors vertical together Connect the measuring tap 0 on the measuring point of the sensors Make sure that both cables are long enough so that the pressure sensors can be lowered to the max. calibration point 	Measuring tape
Initial calibration <i>(Do the initial calibration on each new project location)</i>	<ol style="list-style-type: none"> Press Menu and go to Maintenance → Admin settings → Login Admin Type password: OK+--+OK and OK again Go to Menu Calibrations in Admin settings Menu Select P1 and P2 and press OK With Both pressure sensor in the air above and out of the water press, OK Lower down both Pressure sensors to the max. calibration depth and read the exact depth at the measuring tape water surface line. Enter the value in millimetres , use + and – buttons to select value and press OK to go to next digit. Press OK after last digit. Make sure pressure sensors are on the entered water depth, Press OK to set the WCcalMax. Reboot the DDG-P 	
Reference point NAP-ref. <i>(Reference point of the project to which p1 if referenced to)</i>	<ol style="list-style-type: none"> Press Menu and go to Maintenance → Admin settings → Login Admin Type password: OK+--+OK and OK again Go to Menu Calibrations in Admin settings Menu Select Config NAP ref and press OK Enter the value in millimetres , use + and – buttons to select value and press OK to go to next digit. Press OK after last digit. 	
Installing P1	<p>P1 needs to be placed vertical in water approx. 0,5 m below water level and deep enough that the water level never gets below the depth sensor.</p> <ul style="list-style-type: none"> Measure the exact distance from bottom of P1 to NAP-ref. point 	Measuring tape
Level P1 settings	<ol style="list-style-type: none"> Login in Admin settings Menu Go to Menu Calibrations in Admin settings Menu Select Config Level P1 and press OK Enter the value of Level-P1 in millimetres , use + and – buttons to select value and press OK to go to next digit. Press OK after last digit. 	
P-offset	The P-offset is fixed for the standard supplied UDS-2 sensor. Do not change.	
Logging	<ol style="list-style-type: none"> The “Dive monitor” shows “ Press OK to start log” on the display Start the next log by pressing OK To log a point Press OK Continue Pressing “OK” to log a new point Stop logging by pressing “MENU” and “OK” Logfile: X shows the file number and Point: x shows the point number in the logfile. Each point is stored in the file with all data. 	



DDG-Probe

NAP calculation with P2 as measuring sensor and P1 as reference sensor.
 Medium calibration:
 Set Zero-value:
 Place both P1 and P2 sensor together above waterlevel for zero-value setpoint
 Set Max. depth-value:
 Place both P1 and P2 sensor together at max. measuring depth for Max. depth-value setpoint

NAP-P1 reference sensor setup:
 Place the P1 sensor under 0 waterlevel deep enough to keep the sensor > 0,5 m under level during logging.
 Measure the distance (LevelP1) from sensor bottom to known NAP reference point. Measure with and accuracy of mm.
 $NAPP1 = NAPref. - levelP1 (xx,xxx m)$

Probing points with P2.
 Use P2 sensor to probe the points for the NAP level.
 Calculation:
 $NAPP2 = NAP-P1-(\Delta-NAP) (MM,mmm, NAP)$

		PROJECT: Digital Depth Gauge Probe (DDG-P)	
TITLE:		Sensor setup and calculation	
FORMULAR	CODE	DESIGNING	REV
A3		DDG-P-01	REV 1
SCALE	NTS	DATE	TYPE A
			1