



DATASHEET

DIGITAL SENSORS

Sensor maintenance notice

OPTOD sensor: digital sensor for dissolved oxygen and temperature measurements.

Description	Oxygen: Luminescent membrane sensitive to oxygen content of the studied environment. Gas exchange between the membrane and from the environment. Temperature: NTC.		
Material	Version Inox 316L, Polyamide, silicon, quartz; polyurethane jacketed cable. Version Titanium, Polyamide, silicon, quartz; polyurethane jacketed cable.		
Safeway	The membrane is vulnerable to : - chemicals (organic solvents, acids, peroxide), mechanical treatments (impact, abrasion, tearing).		
Measure/ Interference	For measurement, you must eliminate bubbles trapped under the membrane. Presence of chlorine will distort the measure (overestimation of dissolved oxygen level). During the introduction of the sensor in measurement environment, wait for sensor's temperature stabilization before measure processing. To optimize a sustainable functioning of your probe, we recommend you to respect a frequency of measure superior to 10 seconds.		
Operating temperature	0°C to 50°C Compensation of temperature effective on 0-40°C		
Maintenance	After each use, rinse meticulously the sensor and the membrane with clear water. If deposits like biofilm or mud persist, wipe the membrane gently with a sweet cloth or an absorbent paper. <i>Attention</i> : For the Titanium version clean the body of the sensor by means of acetone (do not use methylated spirit, ethanol or methanol). <i>Attention</i> : do not unscrew the strainer containing the DODISK only in case of		
	In case of replacement of the strainer, replace the strainer and re-screw slowly so that the air can evacuate slowly.		
Storage	Keep the membrane hydrated with the protective case and a moist absorbent surface (like cotton). After dry storage, rehydrate the membrane for a 12 hours period.		
Storage temperature	- 10°C to + 60°C		





	On a clean sensor, check once in a while the 0 %Sat value by dipping the sensor in a water solution + sulphite (sulphite concentration <2%). If there is an offset on point 0, proceed with the complete sensor calibration.		
Oxygen calibration	Warning! Do not put the sensor in contact with the sulphite solution for more than one hour.		
	The calibration in 2 points is achieved with one sulphite solution (offset) then after rinsing and drying, the slope of sensor is achieved by exposing the sensor to water vapor saturated air (or in a clear water saturated with air).		
Temperature calibration	The sensor's temperature calibration is achieved in 2 steps: - step 1 (offset) : the sensor is put in a jar which contains a water bath + ice, - step 2 (slope) : the sensor is put in a known temperature environment (with stabilized temperature). This temperature could be measure with a certified thermometer.		



NTU sensor : digital sensor for turbidity and temperature measurements.

	Turbidity: moscure period	omotria magguro by IP diffusio	asurements.	
Description	Turbidity: measure nephelometric measure by IR diffusion (wavelength 880 nm) at 90°. Temperature: NTC.			
Materials	PVC, PMMA, Polyamide, DELRIN ; Polyurethane jacketed cable			
	The optical windows are vulnerable to:			
Safeway	- chemicals (organic solvents, acids and strong bases, peroxide, hydrocarbons),			
	 mechanical treatments (impact, abrasion). While in use, the sensor must not make contact with walls or bottom of the jar. A 			
	concentration).	minimal clearance of 2/3 cm is recommended (depending on the environment		
	Bubbles on optical parts can interfere with the measurement. On environment change, wait sensor's temperature stabilization before proceeding w			
Measure/				
Interfering	measurement.			
		J and in case of sensor the sa		
	recommended to use the protection strainer to avoid various interferences lik			
-	effects, solar radiation			
Operating	0°C to 50°C			
temperature				
Maintenance		culously the sensor with clear v nud persist, clean the sensor w		
Wallitenance	head with a soft cloth or ar		hin soapy water and wipe the	
Storage		the head of the sensor to prot	tect the optical part.	
Temperature of	- 10°C to + 60°C			
storage				
			of a few calibration. On a clean	
			ing sensor in bubble free clear	
		ted, proceed with the comple	te sensor calibration (on 1 or 4	
	ranges).			
			tion matching the middle of the	
	easurement range, will be necessary. This solution will be prepared from a 4000 NTU ain solution.			
		olutions, take a flask of 200	mL. Introduce the necessary	
	volume of Formazin (cf. table below) and fill up to 200 mL with distilled water.			
Turbidity	The formazin solutions of	concentrations lower at 1000	NTU deteriorate quickly, so do	
Turbidity calibration in NTU	The formazin solutions of not preserve a solution du	concentrations lower at 1000 ring several days.	NTU deteriorate quickly, so do	
	The formazin solutions of not preserve a solution du The solution at 2000 NTU	concentrations lower at 1000 ring several days.		
	The formazin solutions of not preserve a solution du The solution at 2000 NTU opaque flask.	concentrations lower at 1000 ring several days. J can be preserve in the refr	NTU deteriorate quickly, so do igerator for 2 or 3 weeks in a	
	The formazin solutions of not preserve a solution du The solution at 2000 NTU	concentrations lower at 1000 ring several days.	NTU deteriorate quickly, so do igerator for 2 or 3 weeks in a Volume of Formazin	
	The formazin solutions of not preserve a solution du The solution at 2000 NTU opaque flask.	concentrations lower at 1000 ring several days. J can be preserve in the refr Concentration Formazin	NTU deteriorate quickly, so do igerator for 2 or 3 weeks in a	
	The formazin solutions of not preserve a solution du The solution at 2000 NTU opaque flask. Measurement range	concentrations lower at 1000 ring several days. J can be preserve in the refr Concentration Formazin solution 25 NTU	NTU deteriorate quickly, so do igerator for 2 or 3 weeks in a Volume of Formazin (mL) 1,25 mL	
	The formazin solutions of not preserve a solution du The solution at 2000 NTU opaque flask. Measurement range 0.0-50.0 NTU 0.0-200.0 NTU	concentrations lower at 1000 ring several days. J can be preserve in the refr Concentration Formazin solution 25 NTU 100 NTU	NTU deteriorate quickly, so do igerator for 2 or 3 weeks in a Volume of Formazin (mL) 1,25 mL 5 mL	
	The formazin solutions of not preserve a solution du The solution at 2000 NTU opaque flask. Measurement range 0.0-50.0 NTU 0.0-200.0 NTU 0-1000 NTU	concentrations lower at 1000 ring several days. J can be preserve in the refr Concentration Formazin solution 25 NTU 100 NTU 500 NTU	NTU deteriorate quickly, so do igerator for 2 or 3 weeks in a Volume of Formazin (mL) 1,25 mL 5 mL 25 mL	
	The formazin solutions of not preserve a solution du The solution at 2000 NTU opaque flask. Measurement range 0.0-50.0 NTU 0.0-200.0 NTU 0-1000 NTU 0-4000 NTU	concentrations lower at 1000 ring several days. J can be preserve in the refr Concentration Formazin solution 25 NTU 100 NTU 500 NTU 2000 NTU	NTU deteriorate quickly, so do igerator for 2 or 3 weeks in a Volume of Formazin (mL) 1,25 mL 5 mL 25 mL 100 mL	
	The formazin solutions of not preserve a solution du The solution at 2000 NTU opaque flask. Measurement range 0.0-50.0 NTU 0.0-200.0 NTU 0-1000 NTU 0-4000 NTU Turbidity in mg / L, it is need	concentrations lower at 1000 ring several days. J can be preserve in the refr Concentration Formazin solution 25 NTU 100 NTU 500 NTU 2000 NTU cessary to calibrate the sensor	NTU deteriorate quickly, so do igerator for 2 or 3 weeks in a Volume of Formazin (mL) 1,25 mL 5 mL 25 mL 100 mL	
	The formazin solutions of not preserve a solution du The solution at 2000 NTU opaque flask. Measurement range 0.0-50.0 NTU 0.0-200.0 NTU 0-1000 NTU 0-4000 NTU Turbidity in mg / L, it is new The calibration is achieved	concentrations lower at 1000 ring several days. J can be preserve in the refr Concentration Formazin solution 25 NTU 100 NTU 500 NTU 2000 NTU cessary to calibrate the sensor d in 2 steps :	NTU deteriorate quickly, so do igerator for 2 or 3 weeks in a Volume of Formazin (mL) 1,25 mL 5 mL 25 mL 100 mL r on a real sample.	
calibration in NTU	The formazin solutions of not preserve a solution du The solution at 2000 NTU opaque flask. Measurement range 0.0-50.0 NTU 0.0-200.0 NTU 0-1000 NTU 0-4000 NTU Turbidity in mg / L, it is new The calibration is achieved - Step 1 (offset) : immerse	concentrations lower at 1000 ring several days. J can be preserve in the refr Concentration Formazin solution 25 NTU 100 NTU 500 NTU 2000 NTU cessary to calibrate the sensor d in 2 steps : the sensor in distilled water (0	NTU deteriorate quickly, so do igerator for 2 or 3 weeks in a Volume of Formazin (mL) 1,25 mL 5 mL 25 mL 100 mL r on a real sample. D mg / L),	
calibration in NTU Turbidity calibration in	The formazin solutions of not preserve a solution du The solution at 2000 NTU opaque flask. Measurement range 0.0-50.0 NTU 0.0-200.0 NTU 0-1000 NTU 0-4000 NTU Turbidity in mg / L, it is new The calibration is achieved - Step 1 (offset) : immerse - Step 2 (slope) : immerse	concentrations lower at 1000 ring several days. J can be preserve in the refr Concentration Formazin solution 25 NTU 100 NTU 500 NTU 2000 NTU cessary to calibrate the sensor d in 2 steps : the sensor in distilled water (0 se the sensor into a sample	NTU deteriorate quickly, so do rigerator for 2 or 3 weeks in a Volume of Formazin (mL) 1,25 mL 5 mL 25 mL 25 mL 100 mL r on a real sample.	
calibration in NTU	The formazin solutions of not preserve a solution du The solution at 2000 NTU opaque flask. Measurement range 0.0-50.0 NTU 0.0-200.0 NTU 0-1000 NTU 0-4000 NTU Turbidity in mg / L, it is new The calibration is achieved - Step 1 (offset) : immerse - Step 2 (slope) : immerse agitation, and validate the	concentrations lower at 1000 ring several days. J can be preserve in the refr Concentration Formazin solution 25 NTU 100 NTU 500 NTU 2000 NTU cessary to calibrate the sensor d in 2 steps : the sensor in distilled water (0 se the sensor into a sample e theoretical value measured	NTU deteriorate quickly, so do igerator for 2 or 3 weeks in a Volume of Formazin (mL) 1,25 mL 5 mL 25 mL 100 mL r on a real sample. 0 mg / L), of sludge, maintained under by the sensor. Analysis the	
calibration in NTU Turbidity calibration in	The formazin solutions of not preserve a solution du The solution at 2000 NTU opaque flask. Measurement range 0.0-50.0 NTU 0.0-200.0 NTU 0-1000 NTU 0-1000 NTU 0-4000 NTU Turbidity in mg / L, it is near The calibration is achieved - Step 1 (offset) : immerse - Step 2 (slope) : immerse agitation, and validate the sample dry weight in the la	concentrations lower at 1000 ring several days. J can be preserve in the refr Concentration Formazin solution 25 NTU 100 NTU 500 NTU 2000 NTU cessary to calibrate the sensor d in 2 steps : the sensor in distilled water (0 se the sensor into a sample e theoretical value measured aboratory according to the NF	NTU deteriorate quickly, so do rigerator for 2 or 3 weeks in a Volume of Formazin (mL) 1,25 mL 5 mL 25 mL 25 mL 100 mL r on a real sample.	
Calibration in NTU	The formazin solutions of not preserve a solution du The solution at 2000 NTU opaque flask. Measurement range 0.0-50.0 NTU 0.0-200.0 NTU 0-1000 NTU 0-1000 NTU 0-4000 NTU Turbidity in mg / L, it is near The calibration is achieved - Step 1 (offset) : immerse - Step 2 (slope) : immerse agitation, and validate the sample dry weight in the la	concentrations lower at 1000 ring several days. J can be preserve in the refr Concentration Formazin solution 25 NTU 100 NTU 500 NTU 2000 NTU cessary to calibrate the sensor d in 2 steps : the sensor in distilled water (0 se the sensor into a sample e theoretical value measured aboratory according to the NF	NTU deteriorate quickly, so do igerator for 2 or 3 weeks in a Volume of Formazin (mL) 1,25 mL 5 mL 25 mL 100 mL r on a real sample. 0 mg / L), of sludge, maintained under by the sensor. Analysis the standard IN 872 for a range of	
calibration in NTU Turbidity calibration in mg/L	The formazin solutions of not preserve a solution du The solution at 2000 NTU opaque flask. Measurement range 0.0-50.0 NTU 0.0-200.0 NTU 0-1000 NTU 0-4000 NTU Turbidity in mg / L, it is new The calibration is achieved - Step 1 (offset) : immerse - Step 2 (slope) : immerse agitation, and validate the sample dry weight in the la 0-500 mg / L and according mg / L. The calibration of the temp	concentrations lower at 1000 ring several days. J can be preserve in the refr Concentration Formazin solution 25 NTU 100 NTU 2000 NTU 2000 NTU cessary to calibrate the sensor d in 2 steps : the sensor in distilled water (0 se the sensor into a sample e theoretical value measured aboratory according to the NF ing to the NF standard T 90 1	NTU deteriorate quickly, so do igerator for 2 or 3 weeks in a Volume of Formazin (mL) 1,25 mL 5 mL 25 mL 100 mL r on a real sample. 0 mg / L), of sludge, maintained under by the sensor. Analysis the standard IN 872 for a range of 05 2 for a concentration > 500 2 steps:	
calibration in NTU Turbidity calibration in mg/L Temperature	The formazin solutions of not preserve a solution du The solution at 2000 NTU opaque flask. Measurement range 0.0-50.0 NTU 0.0-200.0 NTU 0.0-200.0 NTU 0-1000 NTU 0-4000 NTU Turbidity in mg / L, it is new The calibration is achieved - Step 1 (offset) : immerse - Step 2 (slope) : immerse agitation, and validate the sample dry weight in the la 0-500 mg / L and according mg / L. The calibration of the temp - step 1 (offset) : the sense	concentrations lower at 1000 ring several days. J can be preserve in the refr Concentration Formazin solution 25 NTU 100 NTU 2000 NTU 2000 NTU cessary to calibrate the sensor d in 2 steps : the sensor in distilled water (0 se the sensor into a sample e theoretical value measured aboratory according to the NF ing to the NF standard T 90 1 perature sensor is achieved in por is put in a jar which contains	NTU deteriorate quickly, so do igerator for 2 or 3 weeks in a Volume of Formazin (mL) 1,25 mL 5 mL 25 mL 100 mL r on a real sample. 0 mg / L), of sludge, maintained under by the sensor. Analysis the standard IN 872 for a range of 05 2 for a concentration > 500 2 steps: a water bath + ice,	
calibration in NTU Turbidity calibration in mg/L	The formazin solutions of not preserve a solution du The solution at 2000 NTU opaque flask. Measurement range 0.0-50.0 NTU 0.0-200.0 NTU 0-1000 NTU 0-4000 NTU Turbidity in mg / L, it is nee The calibration is achieved - Step 1 (offset) : immerse - Step 2 (slope) : immerse agitation, and validate the sample dry weight in the la 0-500 mg / L and accordin mg / L. The calibration of the temp - step 1 (offset) : the senso	concentrations lower at 1000 ring several days. J can be preserve in the refr Concentration Formazin solution 25 NTU 100 NTU 2000 NTU 2000 NTU cessary to calibrate the sensor d in 2 steps : the sensor in distilled water (0 se the sensor into a sample e theoretical value measured aboratory according to the NF ing to the NF standard T 90 1 perature sensor is achieved in por is put in a jar which contains	NTU deteriorate quickly, so do igerator for 2 or 3 weeks in a Volume of Formazin (mL) 1,25 mL 5 mL 25 mL 100 mL on a real sample. 0 mg / L), of sludge, maintained under by the sensor. Analysis the standard IN 872 for a range of 05 2 for a concentration > 500 2 steps: s a water bath + ice, e environment (air or water of	



PHEHT sensor: digital sensor for pH/Redox/ Temperature measurements.

	pH/ Redox : Potentiometric measure ; pH : pair of electrodes with a reference (Ag/AgCl gel) / H_3O^+ ions sensitive		
Description	glass		
	Redox : pair of electrodes with a reference (Ag/AgCI gel) /platinum disk		
	Temperature : NTC.		
Materials	Glass, platinum, PVC, Polyamide, DELRIN, Inox 316L (protective sleeve of		
	the temperature probe); polyurethane jacketed cable.		
	The glass electrode is vulnerable to:		
Sofoway	- chemicals (organic solvents, acids and strong bases, peroxide,		
Safeway	hydrocarbons),		
	- mechanical treatments (impacts). The redox potential electrode is sensitive to sulphide adsorption on platinum.		
	During the introduction of sensor in the measurement environment, wait		
Measure/ Interfering	sensor's temperature stabilization before proceeding with measurement.		
Operating temperature	0°C to 50°C		
	After each use, rinse meticulously the sensor with clear water.		
	pH : If deposits like biofilm or mud persist, put the sensor in a cleaning		
	solution (PF-CSO-C-00010) for a few hours and rinse profusely before use.		
Maintenance	Avoid using a soft cloth or an absorbent paper because the glass ball is		
	extremely vulnerable to frictions.		
	Redox: clean the platinum disk with an abrasive moist paper (type P1200 or		
	P220).		
	Maintain the glass membrane hydrated in the protection case with a few drops of preservation agent solution (PF-CSO-C-00005) or, if it is not cyclicable with the solution of pH4. Bings profusely the bulk of class before		
Storage	available, with the solution of pH4. Rinse profusely the bulb of glass before use. After storage in dry environment, put the sensor in a standard solution PH4 for 12 hours.		
	The case protects against direct impact on the head of the sensor.		
	The platinum electrode is preserved dry.		
Temperature of storage	0°C to + 60°C		
pH calibration	Using a clean sensor, proceed with sensor calibration in 2 steps (offset and slope at PH7 and PH4 for example).		
Redox verification	Using a clean sensor, check the electronic 0 by putting the sensor in free air and a second point with standard solution at 240 mV (or 470 mV).		
	The calibration of temperature sensor is performed in 2 steps: - step 1 (offset) : the sensor is put in a jar which contains a water bath + ice,		
Temperature calibration	- step 2 (slope): the sensor is put in a known temperature environment (stabilized T°C). This temperature could be measure with a certified thermometer.		
Changing the cartridge	To avoid deteriorating the electronic part of the sensor, take the cartridge in one hand and unscrew the clamping ring with the other hand. Remove the used cartridge and put the new cartridge before to screw back the clamping ring.		



EHAN sensor: digital sensor for Redox annular/ Temperature measurements.

Description	Redox : pair of electrodes with a reference (Ag/AgCI gel) /platinum ring		
Description	Temperature : NTC.		
Materials	Glass, platinum, PVC, Polyamide, DELRIN; polyurethane jacketed cable.		
Safeway	The redox potential electrode is sensitive to sulphide adsorption on platinum.		
Measure/ Interfering	During the introduction of sensor in the measurement environment, wait		
	sensor's temperature stabilization before proceeding with measurement		
Operating temperature	emperature 0°C to 50°C		
Maintenance	After each use, rinse meticulously the sensor with clear water.		
Maintenance	Clean the platinum ring with an abrasive moist paper (type P1200 or P220).		
Storage	Maintain the head of the sensor hydrated in the protection case with a few drops of preservation agent solution (PF-CSO-C-00005) or, if it is not available, with the solution of KCI. Rinse profusely the sensor before use. After storage in dry environment, put the sensor in a KCI solution for 12 hours.		
	The case protects against direct impact on the head of the sensor.		
Temperature of storage	0°C to + 60°C		
Redox verification	Using a clean sensor, check the electronic 0 by putting the sensor in free air and a second point with standard solution at 240 mV (or 470 mV).		
The calibration The calibration of temperature sensor is performed in 2 steps: - step 1 (offset) : the sensor is put in a jar which contains a water bath - step 2 (slope): the sensor is put in a known temperature environment (stabilized T°C). This temperature could be measure with a certified thermometer.			
Changing the cartridge	To avoid deteriorating the electronic part of the sensor, take the cartridge in one hand and unscrew the clamping ring with the other hand. Remove the used cartridge and put the new cartridge before to screw back the clamping ring.		



C4E sensor: digital sensor for Conductivity/Salinity/TDS/Temperature measurements.

Description	Conductivity : Amperometric measure with a system of 4 electrodes;			
	Temperature: NTC.			
Materials	Graphite, platinum, PVC, Polyamide, DELRIN, Inox 316L (protective sleeve for the temperature probe); polyurethane jacketed cable.			
Safeway	The 4 electrodes are sensitive to deposits (some fat, hydrocarbons, biofilm, mud)			
Measure/ Interference	During the introduction of sensor in the measurement environment, wait sensor's temperature stabilization before proceeding with measurement.			
Operating temperature	0°C to 50°C			
Maintenance	After each use, rinse meticulously the sensor with clear water. If deposits like biofilm or mud are still in the measuring gap or on the electrodes, use a moist abrasive paper to clean the surface of electrodes.			
Storage	The case protects against direct impact on the head of the sensor. For a short-term storage, place a soft cloth or an absorbent paper at the bottom of the case with some drops of buffer solution in 1413 μ S / cm.			
Temperature of storage	- 10°C to + 60°C			
Conductivity calibration	Using a clean sensor, proceed with the calibration of sensor in 2 steps (offset and slope with a standard solution of conductivity adapted for measurement range) on 1 or 4 ranges :			
	Measurement range	Concentration standard solution of conductivity		
	0.0-200.0 µS/cm	84 µS/cm		
	0-2000 µS/cm	1 413 µS/cm		
	0.00-20.00 mS/cm	12,88 mS/cm		
	0.0-200.0 mS/cm	111,8 mS/cm		
Temperature calibration	 The calibration of temperature sensor is performed in 2 steps: step 1 (offset) : the sensor is put in a jar which contains a water bath + ice, step 2 (slope): the sensor is put in a known temperature environment (air or water from a thermostated bath). This temperature could be measure with a certified thermometer. 			



CTZ sensor : digital sensor with inductive technology for Conductivity/Salinity/ /Temperature measurements.

Description	Conductivity : Inductive technology measurement;			
200011011	Temperature: NTC.			
Materials	EPDM, PVC, Stainless steel (protective sleeve for the temperature probe); polyurethane jacketed cable.			
Safeway	Technology of measure "insensible" to the fouling. Watch however that the buckle is not blocked.			
Measure/ Interference	During the introduction of sensor in the measurement environment, wait sensor's temperature stabilization before proceeding with measurement. The sensor is not adapted to the measures on the low range.			
Operating temperature	0°C to 50°C			
Maintenance	After each use, rinse meticulously the sensor with clear water			
Storage	The sensor is preserved dry.			
Temperature of storage	- 10°C to + 60°C			
Conductivity calibration	Using a clean sensor, proceed with the calibration of sensor in 2 steps and slope with a standard solution of conductivity adapted for measured range) :			
	Measurement range	Concentration standard solution of conductivity		
	0-2000 µS/cm	1 413 µS/cm		
	0.00-20.00 mS/cm	12,88 mS/cm		
	0.0-100.0 mS/cm	20 mS/cm		
Temperature calibration	The calibration of temperature sensor is performed in 2 steps: - step 1 (offset) : the sensor is put in a jar which contains a water bath + ice, - step 2 (slope): the sensor is put in a known temperature environment (air or water from a thermostated bath). This temperature could be measure with a certified thermometer.			



MES5 – VB5 sensor : digital sensor for Suspended Solid – Turbidity – Sludge Blanket detection and temperature measurements.

Description	Optical IR (870 nm) based on IR absorption Temperature: NTC.			
Materials	DELRIN, Nickel-plated brass, EPDM ; Polyurethane jacketed cable			
Safeway	The optical windows are vulnerable to: - chemicals (organic solvents, acids and strong bases, peroxide, hydrocarbons), - mechanical treatments (impact, abrasion).			
Measure/ Interfering	Bubbles on optical parts can interfere with the measurement. On environment change, wait sensor's temperature stabilization before proceeding with measurement.			
Operating temperature	0°C to 50°C			
Maintenance	After each use, rinse meticulously the sensor with clear water. If deposits like biofilm or mud persist, clean the sensor with soapy water and wipe the head with a soft cloth or an absorbent paper.			
Storage	Place the protection case on the head of the sensor with a bottom of water to maintain the hydrated optical windows.			
Temperature of storage		-10° C to $+60^{\circ}$ C		
Turbidity calibration in FAU	On a clean sensor, check once in a while the 0 NTU value by dipping sensor in bubble free clear water. If the 0 point is shifted, proceed with the complete sensor calibration.For this procedure, a Formazin solution, with concentration matching the middle of the measurement range, will be necessary. This solution will be prepared from a 4000 NTU main solution.The formazin solutions of concentrations lower at 1000 NTU deteriorate quickly, so do not preserve a solution during several days.The solution at 2000 NTU can be preserve in the refrigerator for 2 or 3 weeks in a opaque flask.Measurement rangeConcentration FormazinVolume of Formazin			
		solution	(mL)	
Suspended Solid calibration in g/L	0-4000 FAU 2000 NTU 100 mL Turbidity in g / L, it is necessary to calibrate the sensor on a real sample. The calibration is achieved in 2 steps : - Step 1 (offset) : immerse the sensor in distilled water (0 mg / L), - Step 2 (slope) : immerse the sensor into a sample of sludge, maintained under agitation, and validate the theoretical value measured by the sensor. Analysis the sample dry weight in the laboratory according to the NF standard T 90 105 2.			
Sludge blanket detection in %	For a use of the sensor in mode Sludge Blanket detection the sensor is tested on 1 point: - 1 offset with some distilled water (100 %),			
Temperature calibration	The calibration of the temperature sensor is achieved in 2 steps: - step 1 (offset) : the sensor is put in a jar which contains a water bath + ice, - step 2 (slope): the sensor is put in a known temperature environment (air or water of thermostated bath). This temperature could be measure with a certified thermometer.			