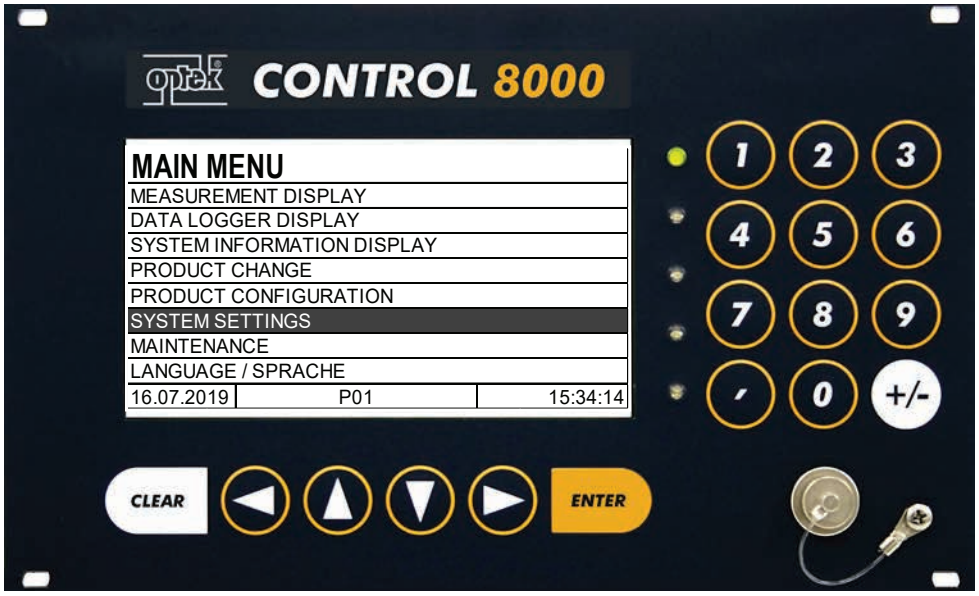
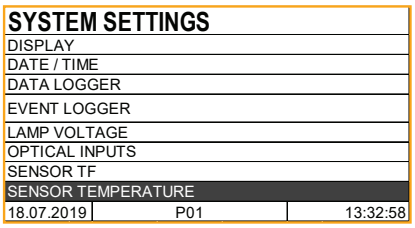
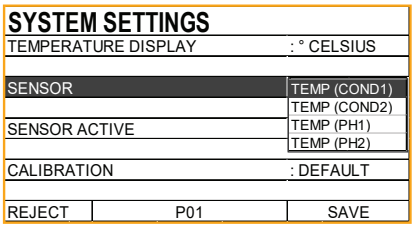
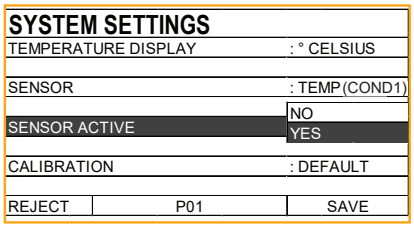
Conductivity Probe Calibration Procedure with optek C8000 Converter

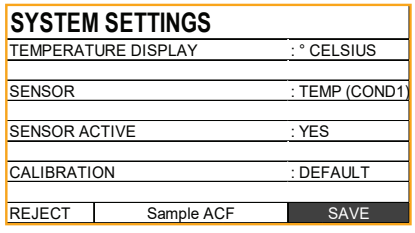


Make sure the ACF/ACS probe is connected correctly to the C8000 back panel !









Configure Temperature Sensor

1. From MAIN menu select **SYSTEM SETTINGS**
2. From SYSTEM SETTINGS select **SENSOR TEMPERATURE**
3. From SENSOR TEMPERATURE select **SENSOR**
4. Select **TEMP (COND1)** to get the temperature reading from the ACx probe at channel 1
5. Select **SENSOR ACTIVE**
6. Select **YES** to activate the temperature probe for measurement
7. Select **SAVE** to keep the changes

SYSTEM SETTINGS		
SENSOR TEMPERATURE		
SENSOR CONDUCTIVITY		
SENSOR pH		
SENSOR DIAGNOSTICS pH		
mA OUTPUTS		
PASSWORD PROTECTION		
PRODUCT CHANGE		
HOLD		
16.08.2019	Sample ACF	11:56:54

SYSTEM SETTINGS		
TEMPERATURE DISPLAY	: ° CELSIUS	
SENSOR	: TEMP (COND1)	
SENSOR ACTIVE	: YES	
CALIBRATION	: DEFAULT	
REJECT	Sample ACF	SAVE

Configure Conductivity Sensor

8 Select **SENSOR CONDUCTIVITY**

9 Select **SENSOR ACTIVE**

10 Select **YES** to activate the conductivity probe for measurement

11 Select **SAVE** to keep the changes

MAIN MENU		
MEASUREMENT DISPLAY		
DATA LOGGER DISPLAY		
SYSTEM INFORMATION DISPLAY		
PRODUCT CHANGE		
PRODUCT CONFIGURATION		
SYSTEM SETTINGS		
MAINTENANCE		
LANGUAGE / SPRACHE		
19.08.2019	Sample ACF	8:44:15

Configure and Perform Conductivity Calibration

12 Select **MAINTENANCE**

MAIN MENU		
HOLD MANUALLY		
ZERO POINT SETTING MANUALLY		
SYSTEM DIAGNOSTICS		
SENSOR ADAPTATION		
CALIBRATIONS		
SERVICE		
19.08.2019	Sample ACF	8:44:15

13 Select **CALIBRATIONS**

CALIBRATIONS		
CALIBRATION SCATTERED LIGHT		
CALIBRATION mA OUTPUTS		
CALIBRATION TEMP-INPUTS		
CALIBRATION CONDUCTIVITY MAN.		
CALIBRATION CONDUCTIVITY AUTO		
CALIBRATION pH		
CALIBRATION SUC		
16.08.2019	Sample ACF	12:05:41

14 Select **CALIBRATION CONDUCTIVITY AUTO**

CALIBRATION CONDUCTIVITY			
SENSOR			: COND1
SENSOR ACTIVE			: YES
CALIBRATION			: DEFAULT
TEMP COMPENSATION			: YES
COND (DEFAULT)		[mS/cm]	: 0.9817
COND (USER)	T=24.1°C		: 0.9993
SENSOR CONSTANT			: 0.9998
OFFSET		[mS/cm	: 0.0000
REJECT	Sample ACF		SAVE

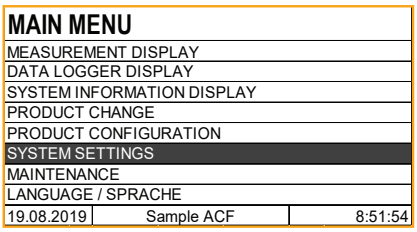
15 Place sensor into conductivity standard until lower part is covered with solution. The current **temperature** is displayed.

CALIBRATION CONDUCTIVITY			
SENSOR			: COND1
SENSOR ACTIVE			: YES
CALIBRATION			: DEFAULT
TEMP COMPENSATION			: YES
COND (DEFAULT)		[mS/cm]	: 0.9821
COND (USER)	T=24.1°C		: 1.0000
SENSOR CONSTANT			: 1.0010
OFFSET		[mS/cm	: 0.0000
REJECT	Sample ACF		SAVE

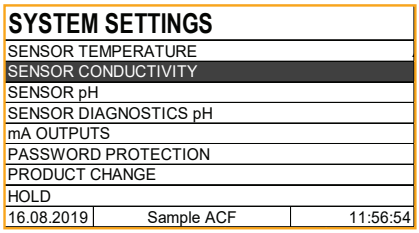
16 Select **COND (USER)** and enter the nominal value (mS/cm at the measured temperature), see table on bottle of conductivity solution

17 Wait until the display of the **SENSOR CONSTANT** is stable, then move to **SAVE** and press **ENTER**

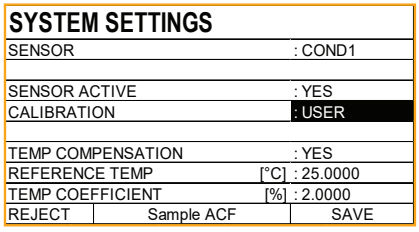
Select User Conductivity Calibration Data for Measurement



18 Select **SYSTEM SETTINGS**

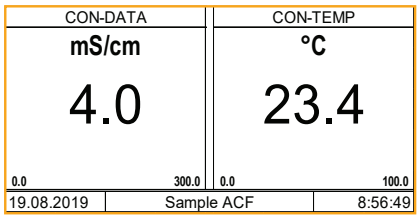


19 Select **SENSOR CONDUCTIVITY**



20 Select **CALIBRATION** and **USER**
and move to **SAVE** and confirm with **ENTER**

Verify Conductivity Calibration with Standard



21 Return to **MAIN MENU** and select **MEASUREMENT DISPLAY**

22 Place the conductivity sensor into the conductivity standard solution, **to verify the calibration** is working properly.

23 The **conductivity sensor** is ready for sample measurements.

Germany
optek-Danulat GmbH
Emscherbruchallee 2
45356 Essen / Germany
Phone: +49 201 63409 0
E-Mail: info@optek.de

USA
optek-Danulat Inc.
N118 W18748 Bunsen Drive
Germantown WI 53022 / USA
Phone: +1 262 437 3600
Toll free call: +1 800 371 4288
Fax: +1 262 437 3699
E-Mail: info@optek.com

China
optek-Danulat Shanghai Co., Ltd.
Room 718 Building 1
No.88 Keyuan Road
Pudong Zhangjiang
Shanghai, China 201203
Phone: +86 21 2898 6326
Fax: +86 21 2898 6325
E-Mail: info@optek-danulat.com.cn

Singapore
optek-Danulat Pte. Ltd.
25 Int'l Business Park
#02-09 German Centre
Singapore 609916
Phone: +65 6562 8292
Fax: +65 6562 8293
E-Mail: info@optek.com.sg

2019-08-27-EN