

# 수명시험기

Suspended Solids Sensor

ITX 20



SECHANG INSTRUMENTS

1.

ITX Suspended Solids  
ITX , BB2 Control Box BB2

ITX 316SS ,

ITX 10m .

2.

가 ,  
가 .

**Content**

ITX Sensor w/ 10 m (33ft) cable and flushing hose. P/N 11305455

**Optional Parts for ITX 20 Suspended Solids Sensor**

Mounting bracket X, incl. rod holder P/N 11205539

Telescopic rod, 4 m, incl. transmitter holder P/N 20205501

Adjustable slide rail sensor holder P/N 11205600

Solenoid valve for flushing P/N 11705516

Aluminum handrail mounting plate predrilled for BB2  
and solenoid valves w/ u-bolts, outside US version P/N 10605533

Aluminum handrail mounting plate predrilled for BB2  
or solenoid valves w/ u-bolts, US version P/N 31204049

33 ft. (10m) extension cable with plug-in connectors. P/N 20805510

Y-Splitter for two sensors to one BB2 control box P/N 21505534

### 3.

Cerlic

Appendix 1 & 2

,SS 가 가

BB2 control box

. BB2 control box 2

Y-splitter

NOTE!

### Installation Tips

30cm(12")

(Aeration Tank)

(Diffuser)

SS

가

가

0 가

(Clarifier)

가

¼" (6 mm)

가

CTX type

가

가

## 4.

:

1. BB2

2. , (rod) .(  
,  
)

3. ( )

4.

5.

6.

7. ( )

8.

9. , , ,



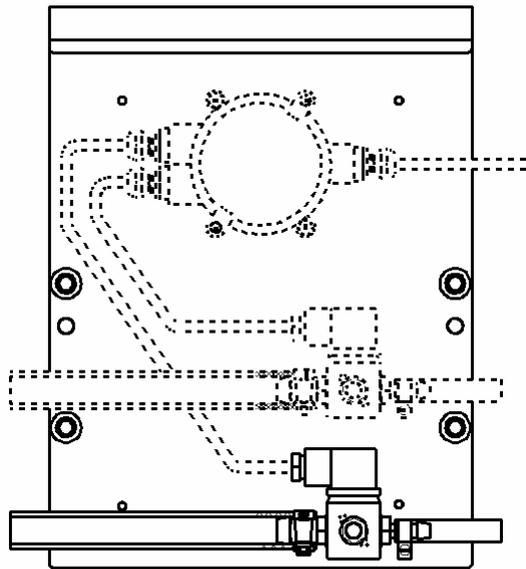
가

1/2"

plate

Predrilled Aluminum handrail mounting

U-



1 & 2

## 6. ITX 20

### Settings

**I-Time** 999 가 .

**Unit** : “%”, “ppm”, “g/l”, or “mg/l”

**Alarm Relay** “-”, “#1”, “#2”, or “#1 and #2”.

**Analog** ”None”, ”Channel 1”, ”Channel 2”, or ”Both”.

**Cleaning** 가 ENTER

**Cleaner** “None”, “Flush”, or “Brush”.

ITX “Brush” 가 .

**Interval min** 0-999 minutes, .

**Length sec** 0-999 seconds, .

**Freeze sec** 0-999 seconds, , .

**Relay** “-”, “#1”, or “#2”.

**Next time** . Enter ,

### Calibrate

**Take sample** No, Zero, #1, n#2, #3, #4, #5.

MS (light)

**Con** ( )

**Sample #1** Lab test – 1

**Sample #2** Lab test – 2

**Sample #3** Lab test – 3

**Sample #4** Lab test – 4

**Sample #5** Lab test – 5

**Scale**

<b>Max</b>	0-99.9 % ("Settings"	0-99999.9 ppm, mg/l, or g/l ) , 20 mA
<b>Min</b>	0-99.9 % ("Settings"	0-99999.9 ppm, mg/l, or g/l ) , 4 mA
<b>Hi Alarm</b>	0-99.9 % ("Settings"	0-99999.9 ppm, mg/l, or g/l ) , 0
<b>Low Alarm</b>	0-99.9 % ("Settings"	0-99999.9 ppm, mg/l, or g/l ) , 0

**System**

<b>Type</b>	(read only)
<b>Serial</b>	(read only)
<b>SoftW</b>	(read only)
<b>Temp</b>	(read only)
<b>Samples</b>	SA , SS "ENTER" . (READ ONLY)
<b>SA 0</b>	SA
<b>SA 1</b>	Sample # 1 SA
<b>Cons 1</b>	Lab test - Sample # 1
<b>....</b>	Sample 2 ~ 5 SA
<b>Info</b>	Info" ENTER
<b>MS</b>	linearized light signal, SA
<b>Con</b>	Sample MS , (%, ppm, mg/l, g/l)
<b>SA 0</b>	0 Sample SA

<b>SA 1</b>	Sample # 1 SA
<b>Cons 1</b>	Lab test – Sample #1 Consistency or Suspended Solids value.
<b>Ch1a</b>	1 Raw value
<b>Ch1</b>	Raw value for channel 1, compensated for changed intensity
<b>Zero Int</b>	Intensity for clear water, set during zero calibration
<b>Intensity</b>	Currently used intensity
<b>I-offset</b>	Intensity offset, set during zero calibration
<b>Temp Calib</b> applications	Compensation factor for temperature drift on low solids
<b>Samp/s</b>	Number of samples per second
<b>Service</b>	가.

## 7.

BB2

2

, 1

가 ,

### 7.1

가

5%

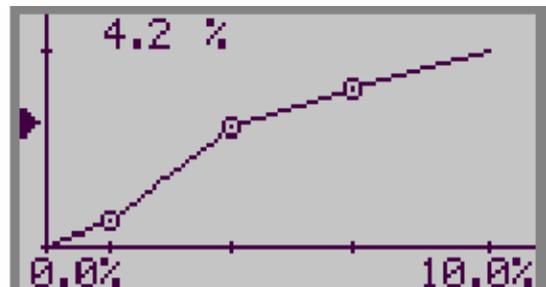
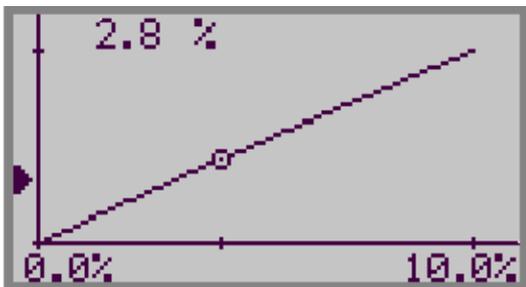
, BB2 Sample 5% 가 , Sample

10000 mg/l , 10500

### 7.2

ITX

↓ & ENTER



Two points calibration

Several points calibration

BB2 , 2 , Zero Sample

Sample

, 5 Sample

X Suspended solids min( ) (4 mA output), max( ) (20 mA output)

Y 光 Solids

Y

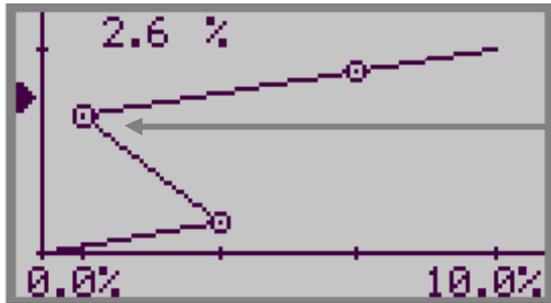
“Setting”

가 (Scale)

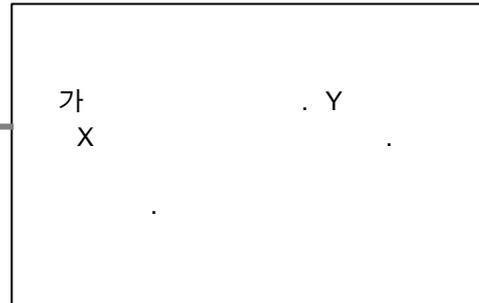
Sample

가

가



Incorrect calibration!



### 7.3 0(ZERO)

0 .0 , 0  
가 ,  
2

#### Running a zero calibration:

30 가 가  
(consistency/suspended solids)  
("SETTINGS" – "UNIT").

가,  
가



ENTER 5

가



"Calibrate" , "Take sample"

ENTER

"Zero"

ENTER

0

"Yes"

ENTER

BB2

ENTER

0

. 10~12 ,

BB2

## 7.4

↑↓

ENTER            5                            가

↑↓                    “Calibrate”                    ,                    “Take sample”

ENTER

“#1”                    ENTER

20                    ,                    10 ~

SS

12” (36 cm)            가

가 가

Sample #1            가            #1

ENTER

ENTER

Point

10%

**8.**

“SCALE” (BB2 ) 4 ~ 20mA  
/ . /  
.  
**MAX** 20 mA  
**MIN** 4 mA ( (negative value) 가 )  
**H-ALARM** High Alarm  
**L-ALARM** Low Alarm

9.

<b><u>ITX 20</u></b>	<b><u>P/N 11305455</u></b>
<b><u>Material</u></b>	<b><u>316SS (SIS2343)</u></b>
<b><u>Dimensions</u></b>	<b><u>See section 13.</u></b>
<b><u>Weight</u></b>	<b><u>3.5 lbs. (1,6 kg)</u></b>
<b><u>Process connection</u></b>	<b><u>Submerged</u></b>
<b><u>Max Depth</u></b>	<b><u>33 ft. (10 m)</u></b>
<b><u>Max temperature</u></b>	<b><u>140° F (60° C)</u></b>
<b><u>Measuring principle</u></b>	<b><u>Straight transmission, 20 mm measuring line</u></b>
<b><u>Light source</u></b>	<b><u>GaAs diode, 880 nm monochromatic</u></b>
<b><u>Cable, connection</u></b>	<b><u>5-pin M12-plug</u></b>
<b><u>Cable, length</u></b>	<b><u>33 ft. (10 m)</u></b>
<b><u>Cable, material</u></b>	<b><u>Hytrel</u></b>
<b><u>Flushing, Pressure</u></b>	<b><u>60-90 psi (4-6 bar)</u></b>
<b><u>Flushing hose, length</u></b>	<b><u>33 ft. (10 m)</u></b>
<b><u>Flushing hose, material</u></b>	<b><u>PVC</u></b>
<b><u>Enclosure</u></b>	<b><u>IP68 NEMA 4X</u></b>

### **Certificate of conformity**

, :

SS-EN50 082-2 (immunity), SS-EN50 081-2 (emission), SS-EN61 010-1 (safety)  
89/336/EEC, 92/31/EEC, 93/36/EEC, 73/23/EEC

## 9.1 (ITX 20 Suspended Solids Sensor)

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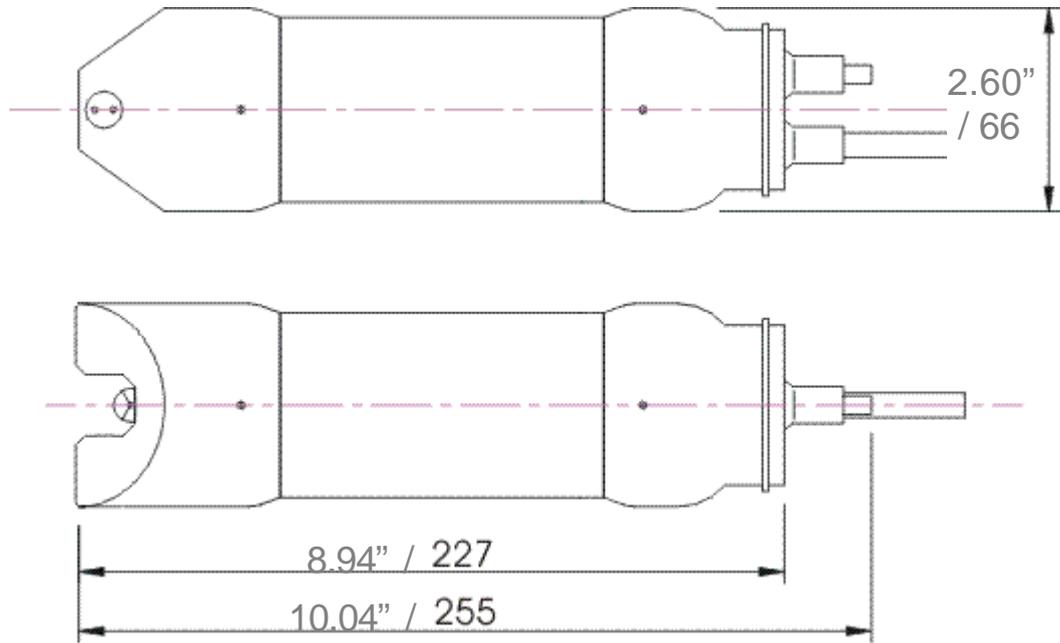
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## 10. Dimensions







## Appendix 4

**Sensor Type** \_\_\_\_\_

**Position / Tag** \_\_\_\_\_

System

**Serial** \_\_\_\_\_

**SoftW** \_\_\_\_\_

Settings 가

**I-time** \_\_\_\_\_

**Unit** \_\_\_\_\_

**Alarm Relay** \_\_\_\_\_

**Analog** \_\_\_\_\_

**Cleaner** \_\_\_\_\_

**Cleaning interval** \_\_\_\_\_

**Cleaning length** \_\_\_\_\_

**Cleaning relay** \_\_\_\_\_

Scale 가

**Max** \_\_\_\_\_

**Min** \_\_\_\_\_

**High alarm** \_\_\_\_\_

**Low alarm** \_\_\_\_\_

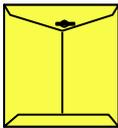
↑ & ENTER 가

# Suspended Solids Sensor ITX20

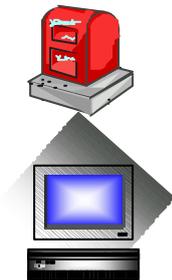


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