

Edit by Naima 4 May 2023




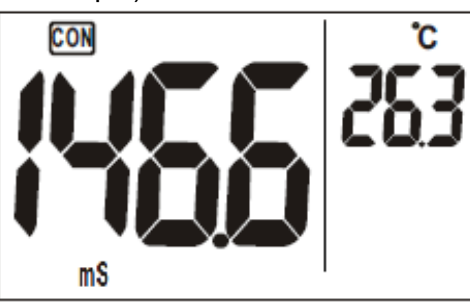
Question: What is the EC measuring range for 86021/86031/84051?

Model	86021
pH range/resolution	2.00~12.00/resolution :0.01
pH accuracy	+/-0.1
Cond. range	0~199.9, 0~1999 μ S/cm, 0~19.99, 0~150.0mS/cm
Cond. accuracy	+/-1% F.S +/- 1 digit
Cond. resolution	0.1 μ S/cm, 1 μ S/cm, 0.01mS/cm, 0.1mS/cm

Reply:

First of all, for EC measurement in 86021/86031/84051 combo water quality meter, it can display in 2 units:
 (1) microSeimens per centimeter (μ S/cm) or (2) milliSeimens per centimeter (mS/cm). 1 mS/cm = 1000 μ S/cm.

On spec. sheet, the EC measuring range in each unit (μ S/cm or mS/cm) contains **2 sections** as below:

Measuring range from 0~1999 μ S/cm in 2 sections	Measuring range from 0~150.0mS/cm in 2 sections
Section 1: From 0~199.9 μ S, the resolution is <u>0.1</u> (see below example) 	Section 1: From 0.00~19.99mS, the resolution is <u>0.01</u> (see below example) 
Section 2: From 200 to 1999 μ S the resolution is <u>1</u> (see below example) 	Section 2: From 20.0 to 150.0mS the resolution is <u>0.1</u> (see below example) 

Remark:

The unit μ S or mS on 86021/86031/84051 is not able to be changed by press button, meter will decide to show the most suitable unit based on the measuring range and resolution automatically.

For example: If the EC measurement of testing sample is around 506 μ S/cm, in the beginning, user will see the measurement in mS or μ S alternatively when insert the EC probe into testing sample, but after the measurement is stabilize, meter will chose to display in the unit of μ S, which is 506 μ S for better resolution compares to 50.0mS.