





Conductivity

27 EC-502

Conductivity Monitor

Excellent chemical-resistant type, Carbon EC Electrode.





Features

- Measurement of SI unit and old unit shifting is possible
 SI unit (mS/m, S/m) and old unit (mS/cm) can be shifted and measured.
- Possible to set and change cell constant as you need
- The electrode of screw and cap nut fixing
 The flow type measuring tank for process piping is
 also prepared.

■ Technical Information

Conductivity unit converting table

If you divide old conductivity unit (μ S/cm) by 10, it becomes new unit (SI unit) of conductivity unit (mS/m). Because of unit change, cell constant (θ) changes. Cell constant (θ) is equal to new unit (SI unit) cell constant (m^{-1}), if you multiply old unit (cm $^{-1}$) by 100.

Conductivity

Old unit(µS/cm)	New unit(SI unit) mS/m
0.1	0.01
0.5	0.05
1	0.1
5	0.5
10	1
50	5
100	10
500	50
1000	100

Remarks : μ means 10⁻⁶, m means 10⁻³ Example : 1000 μ S/cm=1mS/cm=0.001S/cm 1μ S/cm=100 μ S/m=0.1mS/cm

Meter

Product Name	Conductivity Monitor	Conductivity Monitor	
	(for Middle/High Density)	(for Low/Middle Density)	
Model	EC-502(H)	EC-502(L)	
Display	LED red 2-row Upper:EC Value		
	Lower:Water Temp(only display)		
Measuring Range			
SI unit	0~20S/m	0~2000mS/m	
Old unit	(0~200mS/cm)	(0~20mS/cm)	
Temp	0~100℃(only display)		
Display Range			
SI unit	①0.000~0.200S/m	①0.00~20.00mS/m	
	@0.000~2.000S/m	@0.00~200.0mS/m	
	30.000~20.00S/m	30.00~2000mS/m	
Old unit	①0.000~2000mS/cm	①0.000~0.200mS/cm	
	@0.00~20.00mS/cm	@0.000~2.000mS/cm	
	30.0~200.0mS/cm	30.000~20.00mS/cm	
Repeatability	within 0.5% (F.S.)		
Transmit output	DC4~20mA 3 range switchng		
Contact Output	High/Low Limit each a,b contact point (No voltage)		
Power supply	AC85~240V 50/60Hz		
Standard component	Meter body, EC Electrode, Panel fixing tool		

EC Detector

Model	ECD-4CY	ECD-1CY	
Cell constant	400m ⁻¹ (Old unit:4cm ⁻¹)	100m ⁻¹ (Old unit:1cm ⁻¹)	
Principle	AC 2 Electrode System, Carbon Electrode		
Sample Temperature	0~80℃		
Material	PPS, Carbon, FKM, PP		
Installation	Screw-in type, Flow type, Throw-in type		
Cable Length	5m Standard		





