

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 ($\mu\text{S}/\text{cm}$) 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 ($\mu\text{S}/\text{cm}$)	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 : $1000\mu\text{S}/\text{cm}=1\text{mS}/\text{cm}=0.001\text{S}/\text{cm}$
 $1\mu\text{S}/\text{cm}=100\mu\text{S}/\text{m}=0.1\text{mS}/\text{cm}$

Meter

Product Name	Conductivity Monitor (for Middle/High Density)	Conductivity Monitor (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 Old unit (0~200mS/cm) Temp 0~100°C (only display)	0~2000mS/m (0~20mS/cm)
Display Range	SI unit ①0.000~0.200S/m ②0.000~2.000S/m ③0.000~20.00S/m Old unit ①0.000~2000mS/cm ②0.00~20.00mS/cm ③0.0~200.0mS/cm	①0.00~20.00mS/m ②0.00~200.0mS/m ③0.00~2000mS/m ①0.000~0.200mS/cm ②0.000~2.000mS/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	400 m^{-1} (Old unit:4 cm^{-1})	100 m^{-1} (Old unit:1 cm^{-1})
Principle	AC 2 Electrode System, Carbon Electrode	
Sample Temperature	0~80°C	
Material	PPS, Carbon, FKM, PP	
Installation	Screw-in type, Flow type, Throw-in type	
Cable Length	5m Standard	