

COND-8100 Conductivity Transmitter

Application area

- ♦ Industrial process
- ♦ Recycle & cleaner
- ♦ Drinking & surface water measurement
- ♦ Water & waste water treatment
- ♦ Ferment process
- ♦ Chemical process

Features

- ♦ 144X144 microprocessor conductivity transmitter.
- ♦ Waterproof & dustproof proof design, to fit wall/ panel /pipe installation.
- ♦ The conductivity, resistivity, salinity can be measured.
- ♦ With backlight sensor, automatic and manual backlight setting function
- ♦ Automatic sensor clean function with programable time interval and hysteresis.
- ♦ Large LCD display, it can show the operation status and symbols.
- ♦ It can be connected to two poles and four poles conductivity electrode.
- ♦ Automatic calibration; manual/auto. temperature compensation.
- ♦ With password and multi-key design, security protection enhancement.
- ♦ Equipped RS-485 MODBUS RTU protocol, it can connect to the digital system directly.(Cond-8100RS serial only)
- ♦ Two programmable output (Cond-8100 serial only)
- ♦ TDS optional

Specifications

AC supply	100V...240VAC±10%,50/60Hz
DC supply	20...40VDC
Temp	0...50°C
Dimensions	144mm×144mm×115mm(H×W×D)
Protection	Correspond to IP65(NEMA 4)
Installation	Wall/panel/pipe mounting
Cut off Dimensions	138mm×138mm (H×W)
Weight	0.8Kg

Ordering Guide

Transmitter

- ♦ COND-8100
- ♦ COND-8100D(20...40VDC)
- ♦ COND-8100DRS(20...40VDC) RS-485
- ♦ COND-8100RS RS-485



Parameters

Range/Resolution/Accuracy(±1Digit)	
Conductivity	0.000uS/cm...200.0mS/cm /0.001uS/cm /±1% /0.001uS/cm/±1%
Specific resistance	0.000uS/cm...20.00MΩ.cm/ 0.01MΩ.cm/±1%
Salinity	0.0ppt...70.0ppt /0.1ppt /±1%
Temp	-30.0°C...+130.0°C /0.1°C/±0.2%; With manual correction function
TDS	0...19999ppm/0.001ppm /±1%
Electrode coefficient	0.01,0.1,1,10.00 1/cm ; 0.0050...19.99 1/cm adjustable.
Temp. compensation	
Automatic recognition with Pt1000/NTC30K or manual	
Temp. coefficient	
Conductivity: Linear(0.00%...20.00%)or non-Linear ; Resistivity: non-Linear	
Hi/Lo Relay Output	
Two sets Hi/Lo programmable,N/OFF, 240VAC/ 0.5A Max	
Analog Output	
1or 2 sets of programmable & isolate current DC 0/4...20mA with programable according to cond. /res. / sal./Temp. Max. load 500Ω.	
Wash Relay Output	
ON: 0...9999sec. / OFF: 0...999.9hours	

Standard

- ♦ MCS1407 quadrupole conductivity electrode

COND-8300 Conductivity Transmitter

Application area

Widely used in waste water treatment, pure water, recycled water, boiler water systems And electronics, electroplating, printing and dyeing , chemical ,food, pharmaceutical and other process areas ,Large sewage treatment plants, industrial process monitoring applications such excellence.

Characteristic

- ♦ 96X96 microprocessor conductivity transmitter.
- ♦ Waterproof & dustproof proof design, to fit wall/ panel/ pipe installation.
- ♦ The conductivity,resistivity,salinity can be measured.
- ♦ With backlight sensor, automatic and manual backlight setting function
- ♦ Automatic sensor clean function with programable time interval and hysteresis.
- ♦ Large LCM display, it can show the operation status and symbols.
- ♦ It can be connected to two poles and four poles conductivity electrode.
- ♦ Provides digital filter function , can filter out interference value , to make the reading more stable.
- ♦ Automatic calibration; manual/auto. temperature compensation.
- ♦ With password and multi-key design, security protection enhancement.
- ♦ Equipped RS-485 MODBUS RTU protocol, it can connect to the digital system directly.(COND-8300RS serial only)
- ♦ Two programmable output(COND-8300 serial only)
- ♦ TDS optional

Ordering Guide

Transmitter

- ♦ COND-8300
- ♦ COND-8300D(20-40VDC)
- ♦ COND-8300RS RS-485
- ♦ COND-8300DRS(20-40VDC) RS-485
- ♦ Standard
- ♦ MCS1407 quadrupole conductivity electrode



Parameters

Range/Resolution/Accuracy(±1Digit)	
Conductivity	0.000uS/cm...200.0mS/cm /0.001uS/cm /±1%
Specific resistance	0.000...20.00MΩ.cm/0.01MΩ.cm /±1%
Salinity	0.0ppt...70.0ppt /0.1ppt /±1%
Temp	-30.0°C...+130.0°C /0.1°C/±0.2%;With manual correction function
TDS	0...19999ppm/0.001ppm /±1%±1Digit
Electrode coefficient	
0.01,0.1,1,10.00 1/cm ; 0.0050...19.99 1/cm adjustable.	
Temp. compensation	
Automatic recognition with Pt1000/NTC30K or manual	
Temp. coefficient	
Conductivity: Linear(0.00%...20.00%)or non-Linear ; Resistivity: non-Linear	
Hi/Lo Relay Output	
Two sets Hi/Lo programmable,N/OFF, 240VAC/ 0.5A Max	
Analog Output	
2 sets of programmable & isolate current DC 0/4-20mA with programable according to cond. /res. / sal./Temp. Max. load 500Ω.	
Wash Relay Output	
ON: 0...9999sec. / OFF: 0...999.9hours	

Specifications

AC supply	100V-240VAC±10%,50/60Hz
DC supply	20-40VDC
Temp	0-50°C
Dimensions	96mm×96mm×148mm(H×W×D)
Protection	Correspond to IP65(NEMA 4)
Installation	Wal l/ panel / pipe mounting
Cut off Dimensions	91mm×91mm (H×W)
Weight	0.4Kg

Electrodes and Accessories

MCS1407 quadrupole conductivity electrode

Feature

- ◆ In the solution of higher concentration, the electrode is not easy to be polarized, and the stability of the data is stable. Good reproducibility
- ◆ Easy maintenance, the four electrodes on a flat surface is easy to clean
- ◆ In low conductivity samples equally well

Specification

- ◆ constant: 0.7
- ◆ Test Range: 0...200ms/cm
- ◆ Pressure range: 0. 7MPa
- ◆ Dimensions: the upper and lower teeth 3/4 NPT pipe
- ◆ Electrode body length: 153mm
- ◆ Plus electrode protection tube length: 166mm



Molded electrode flow cell

Feature

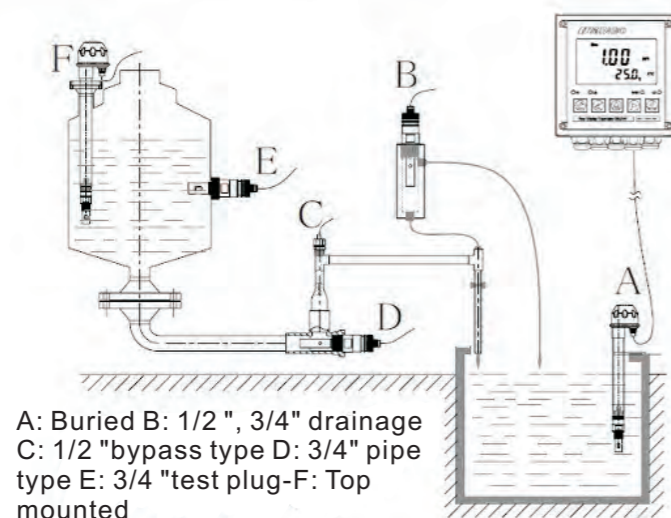
- ◆ Electrode is easy to install and maintain
- ◆ Easy to observe the water sample flow conditions

Specification

- ◆ Size: 130 * Φ40mm
- ◆ Quick connector
- ◆ Material: plexiglass



Online electrical conductivity / resistivity measurement system of FIG



A: Buried B: 1/2", 3/4" drainage
C: 1/2" bypass type D: 3/4" pipe
type E: 3/4" test plug-F: Top
mounted

DO-9110 Fluorescence of Dissolved Oxygen Transmitter

Application area

- ◆ Water & waste water treatment
- ◆ Aquaculture monitoring
- ◆ Drinking & surface water measurement
- ◆ Chemical process
- ◆ Recycle & cleaner

Features

- ◆ Transmitter is matched by Fluorescence D.O Electrode.
- ◆ Waterproof & dustproof proof design, to fit wall/ panel / pipe installation.
- ◆ Automatic sensor clean function with programable time interval and hysteresis.
- ◆ Large LCD display, it can show the operation status and symbols.
- ◆ With backlight sensor, automatic and manual backlight setting function
- ◆ Automatic calibration; manual/auto. temperature compensation.
- ◆ With password and multi-key design, security protection enhancement.
- ◆ Equipped RS-485 MODBUS RTU protocol, it can connect to the digital system directly.(DO-9110RS serial only)
- ◆ Two programmable output(DO-9110 serial only)

Parameters

Range	0...200%;0.00...19.99mg/l;0.00...19.99ppm; -30...130.0°C Depending on the electrode
Resolution	0.01%;0.01mg/l;0.01ppm;0.1°C
Accuracy	The reading ±3%;±0.2°C With manual (±1Digit) correction function
Pressure compensation	0.500...2.500bar or 7.25...36.25psi Manual adjustment
Temperature compensation	Automatic
Hi/Lo Relay Output	Two sets Hi/Lo programmable,N/OFF, 240VAC/ 0.5A Max
Analog Output	2 sets of programmable & isolate current DC 0/4~20mA with programable according to DO, Temp. Max. load 500Ω.

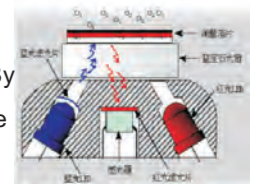


Specifications

AC supply	100V...240VAC±10%,50/60Hz
Temp	0...50°C
Dimensions	144mm×144mm×115mm(H×W×D)
Protection	Correspond to IP65(NEMA4)
Installation	Wall/ panel/ pipe mounting
Cut off Dimensions	138mm×138mm (H×W)
Weight	0.8Kg

Principle

Luminescent dissolved oxygen measuring instrument based on the principle of fluorescence quenching. Blue light illuminate to fluorescent substance shine red light. Due to oxygen molecules take energy, the time and intensity of shining red light and concentration of oxygen are inverse ratio. By measuring phase difference of red light and reference light to calculate the concentration of oxygen



Ordering Guide

Transmitter

- ◆ DO-9110
- ◆ DO-9110D(20-40VDC)
- ◆ DO-9110RS RS-485
- ◆ DO-9110DRS(20-40VDC) RS-485

Standard

- ◆ MD1900 optical dissolved oxygen electrode
- ◆ Bracket