

## Create ROC CCT-8301A Conductivity/Resistivity Online Controller



### ➤ **Application:**

Widely used for electric power, electronics, metallurgy, petrochemical, pharmaceutical, food and beverage, environmental protection field.

### ● **Characteristics**

- ✚ intelligent automatic range switching and digital temperature compensation
- ✚ integration of conductivity/resistivity/TDS/temperature parameter measurement;
- ✚ Wide measurement range from ultra pure water (0.054  $\mu\text{S/cm}$ ) to concentrated water (40  $\text{ms/cm}$ );
- ✚ 240 x 160 monochrome liquid crystal display (two backlights color optional), bilingual Chinese/English, multiple parameter display in same screen
- ✚ With the Conductivity constant 0.01; 0.1; 1.0; 10.0 ( $\text{cm}^{-1}$ )
- ✚ Arbitrary selection of Conductivity, resistivity, TDS, setting and operating of advanced links, simplify the setting process
- ✚ Dual channel, full isolation of current loop, one for send the conductivity/TDS/resistivity signal, the other for transmitting of temperature signal;
- ✚ Instrument/Transmitter; good anti-jamming performance, can meet the safe operation of the vast majority of electromagnetic environment;
- ✚ Triple channels Photo-electrical semiconductor relay, time management the Conductivity/Resistivity temp
- ✚ Perpetual calendar function, set appointment timing, providing time label for recording data;
- ✚ RS485communication port, Standard Modbus RTU protocol.
- ✚ With the CE certification
- ✚ Complete isolated channel for the power, measurement, transmitter and control.
- ✚ Pt1000 temperature compensation, with the professionalization of temperature measurement/temperature control;
- ✚ DC24V power supply, conform to the safety standards of high humidity site.
- ✚ Optimal electromagnetic compatibility design, good anti-jamming performance.

➤ Main technical features:

	Conductivity	Resistivity	TDS	Temp.
Measurement range	0.1 $\mu$ S/cm~ 40.0mS/cm	50K $\Omega$ ·cm~ 18.25M $\Omega$ ·cm	0.25ppm~20ppt	(0~100) $^{\circ}$ C
Resolution	0.01 $\mu$ S/cm	0.01M $\Omega$ ·cm	0.01ppm	0.1 $^{\circ}$ C
Accuracy	1.5level	2.0level	1.5level	$\pm$ 0.5 $^{\circ}$ C
Temp. Compensation	Pt1000			
Working Environment	Temp. (0~50) $^{\circ}$ C; relative humidity $\leq$ 85%RH			
Analog Output	Double channel (4~20)mA, Instrument/Transmitter for selection			
Control Output	Triple channels photo-electronic semiconductor relay ,Load capacity: AC/DC 30V, 50mA(max)			
Power Supply	DC 24V $\pm$ 15%			
Consumption	$\leq$ 4W			
Protection Level	IP65 (with the back cover)			
Installation	Panel mounted			
Dimension	96mm $\times$ 96mm $\times$ 94mm (H $\times$ W $\times$ D)			
Hole Size	91mm $\times$ 91mm(H $\times$ W)			