4803D(DC) and 4803D(AC) DO 4-20mA Transmitter





Introduction:

Thank you for choosing this DO transmitter. This 1/16 DIN controller offers dual backlight LCD display, high accuracy, and automatic or manual temperature compensation.

Specifications:

	DO	O ₂	Temp.
Range	0~20.00 mg/L	0~200.0 %	0~110 ℃
Accuracy	±0.2+1 digit	±2% FS	±0.2+1 digit
Resolution	0.01 mg/L	0.10%	0.1 ℃
Compensation	ATC: 0~60 °C	N/A	
	MSC: 0~50 ppt		
	MAC:0-20000 ft		

Temperature Compensation	30K Thermistor or Pt-1000 or MTC
Output	4-20mA isolated current output
Signal output load	500 Ω
Power supply	9V DC or 100V~240V AC
Panel Cutout	1/16th DIN 1.81 x 1.81" (46 x 46mm)
Meter Dimensions	4.7 x 1.77 x 1.77" (105 x 45 x 45mm)

Accessories:

9V DC adaptor (only for 9V DC version)
Adapter connection wire (only for 9V DC version)

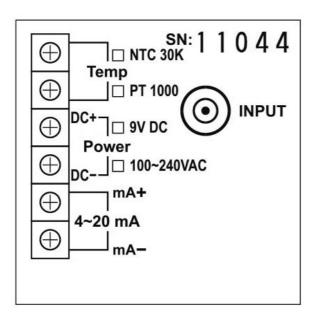


Installation:

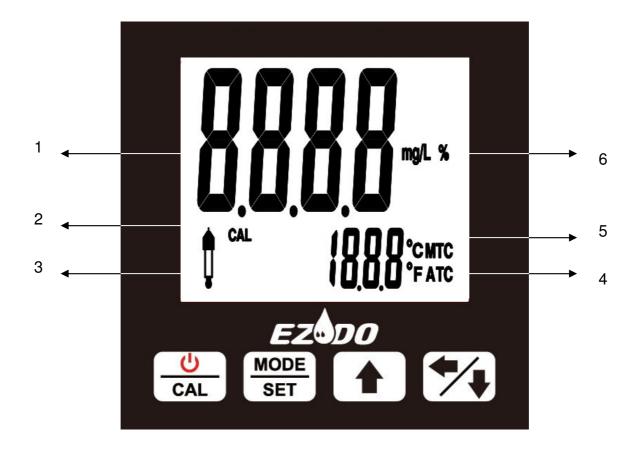
<Mounting the controller>

- 1. Make a 1.77 x 1.77" (45 x 45 mm) panel cutout (1/8" to 3/8" thickness)
- 2. Slide the controller into the cutout until the bezel is flush with the panel.
- 3. Slide the mounting bracket over the rear of the controller and press snugly against the rear of the panel.

<Rear panel connection>



<Display and Buttons>



- 1. DO or O2 reading
- 2. Calibration mode
- 3. Calibration error indicator
- 4. Auto temperature compensation(ATC) or Manual temperature compensation(MTC)
- 5. Temperature reading and unit
- 6. unit of DO or O2 reading

Ů	1. Turn on/off the controller
CAL	2. Enter calibration mode
	1. Switch DO and O ₂ mode
MODE	2. Press and hold to enter setting mode
	3. In setting mode, press to store each setting
†	In measurement mode, adjust temperature value of MTC In setting mode, adjust each parameter

Calibration: <do></do>				
1.	Press $\frac{\text{MODE}}{\text{SET}}$ to switch mode to O2 mode (unit will be %). DO probe will be calibrated in			
	the air under O ₂ mode.			
2.	Wait 10 minutes to 30 minutes for the probe to polarize. The reading should be approx.			
	101.7% (saturation) or stable after the probe has completely polarized.			
3.	Let the probe in the air vertically. Press and hold CAL for 3 sec. to enter calibration			
	mode. The display will appear CAL and flashing 101.7%. When the display stops			
	flashing and indicates "SA", then "End" while calibration ends, and will return to			

4. Optional 'zero oxygen' calibration: (improves measurement accuracy for very low or very high DO measurements). Place the probe into a zero-oxygen calibration solution, such as 5% sodium sulfite, wait for stability and press and hold call to enter calibration. Stability in a zero solution may take many minutes, depending on probe history.

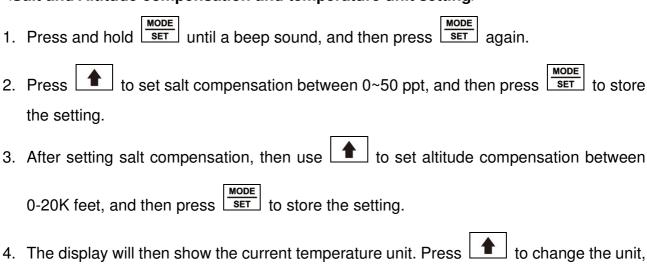
Note:

measurement mode.

- 1. For this first-time calibration, the reading is not necessarily to be 101.7% after the probe is completely polarized. If the reading is stable, it is ready for calibration.
- 2. Calibration error indicator icon will appear, and "Err" instead of "SA", if calibration fails.
- 3. If the reading is not 0% while the DO probe is not connected, calibrate the meter in the air without probe to make reading becomes 0%.

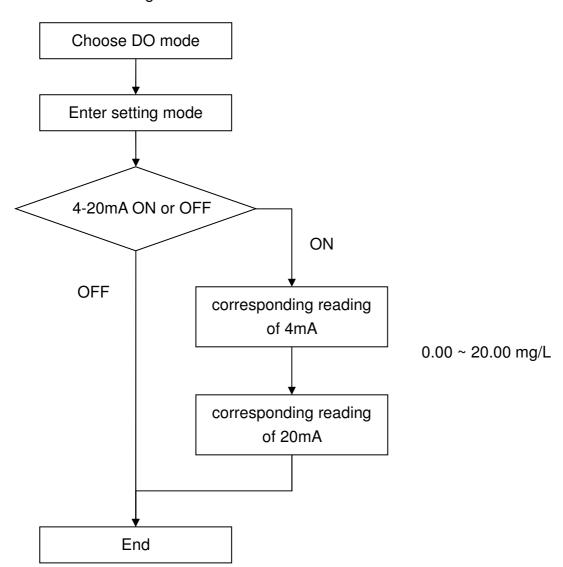
<Salt and Altitude compensation and temperature unit setting>

and then press $\frac{\text{MODE}}{\text{SET}}$ to store the setting.



4-20mA output setting:

- 1. Press SET to choose DO mode.
- 2. Press and hold SET button until a beep sound, and then press and hold button until a beep sound to enter 4-20mA output setting mode.
- 3. Use and to adjust settings, and use setting.
- 4. The display will then automatically cycle through 3 settings: 4-20mA output on or off, the corresponding reading of 4mA, corresponding reading of 20mA.
- 5. When setting the corresponding readings, press and hold to switch the value to Positive or to Negative.



Other settings

<Back light>

- 1. Press and hold until a beep sound, release and then press and hold again.
- 2. Press to choose On, OFF, and Auto:

On: back light is always on.

OFF: back light is always off.

Auto: back light will be on for 30 seconds while any button is pressed and then off.

3. press set to store the setting.

<Reset the controller to default setting>

- 1. Press and hold SET until a beep sound, release SET and then press and hold CAL again until a beep sound.
- 2. Press to switch OFF to On, and then press to reset the controller to default setting.

