

Intelligent Dissolved Oxygen Transmitters

DC-5310 / DC-5310-RS



Applications:

- Water and wastewater treatment
- Environment
- Fermentation
- Industrial process

Features:

- 144 x 144mm Intelligent D.O. transmitter
- Compatible with WTW TriOxmatic pre-amplifier analog D.O. sensors
- Compatible with Mettler Toledo polarographic analog D.O. sensors
- Measuring unit: Saturation%, O₂%, ppm, mg/l, ppb, µg/l
- Salinity correction & Atmospheric pressure correction
- User-friendly operation with text and graphic illustration, clear signs and easy to understand
- Large LCM graphic display with auto-sense backlight and contrast setting function
- Simultaneous display of measurement value and temperature
- Sensor performance diagnosis display
- Automatic temperature compensation with NTC30K or NTC22K
- Product adjustment function allows online calibration
- Two sets of isolated current output DC 0/4~20mA, Max.500Ω
- Hi/Lo, Hi/Hi, Lo/Lo selectable two limited contact outputs with programmable set-points and hysteresis
- Gradually continuous sample measurements average function enhances stability
- With password and multi-key design—security protection enhancement
- Automatic sensor clean function with programmable time interval
- Three separate LED indicated alarms for recognition at a glance even from far place
- IP 65 (NEMA 4X) waterproof and dustproof design



WTW D.O. sensor



Mettler Toledo D.O. sensor

DC-5310-RS only:

- Measuring value can be selected for figure or chart display
- Trace mode can display historical measured value curve from 3-minute to 4-week program
- Equipped with events logbook function and error diagnosis record
- Equipped with one analog output and RS-485 interface



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Specifications:

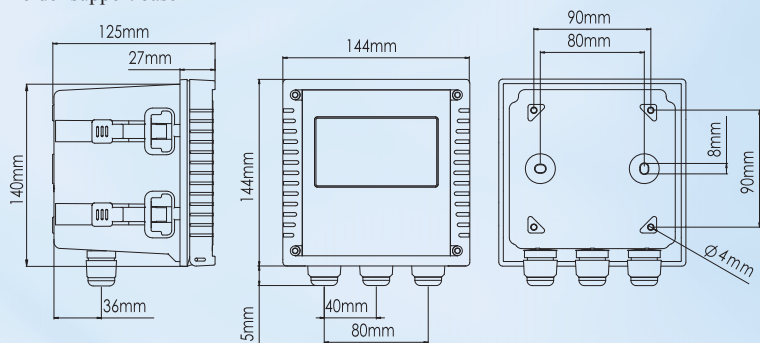
Model		DC-5310	DC-5310-RS
Measuring mode		% / O ₂ % / ppm / mg/l / ppb / µg/l / Temp.	
Measuring range	% Saturation	0 ~ 600%, (Depends on the sensor)	
	O ₂ % Gas	0~120% O ₂ , (Depends on the sensor)	
	mg/l, ppm	0~60.00 mg/l (ppm) (Depends on the sensor)	
	µg/l, ppb	0~9999.9µg/l (ppb) (Depends on the sensor)	
	Temp.	0~140°C (Depends on the sensor)	
Resolution	% Saturation	0.1 %	
	O ₂ % Gas	0.01 %	
	mg/l, ppm	0.01 mg/l (ppm) / 0.001 mg/l (ppm)	
	µg/l, ppb	0.1µg/l (ppb) / 1 µg/l (ppb)	
	Temp.	0.1°C	
Accuracy	% Saturation	±0.5% of reading (±1 Digit)	
	O ₂ % Gas		
	mg/l, ppm		
	µg/l, ppb		
	Temp.		
Temperature Compensation	NTC 30K or NTC 22K automatic compensation or manual adjustment		
Salinity correction	0.0 ~ 45.0 ppt		
Pressure correction	0.500~2.500 bar / 7.25~36.25 psi / 500~2500 mmHg manual adjustment		
Ambient temperature	0~50°C		
Storage temperature	-20~70°C		
Display	Large LCM with sensitization sensor for auto/manual illumination function and contract function		
		Text mode	Text mode, Chart mode, Trace mode
Analog output 1	Isolated DC 0/4~20mA corresponding to measurement, max. load 500W		
Analog output 2	Isolated DC 0/4~20mA corresponding to temperature, max. load 500W		-
Serial interface	-	RS-485(Modbus RTU or ASCII)	
Logbook	-	50 event records	
Setting	Contact	240VAC, 0.5A Max. (recommend)	
	Activate	Hi/Lo, Hi/Hi, Lo/Lo selectable two limited programmable, ON/OFF	
Wash	Contact	240VAC, 0.5A Max. (recommend)	
	Time	ON: 0~99 min. 59 sec. OFF: 0~999 hours 59 min.	
Voltage output	DC±8V Max. 0.5W		
Power supply	100V~240VAC ±10%, 50/60Hz, 8W Max.		
Installation	Wall or Pipe or Panel mounting		
Dimensions	144 mm × 144 mm × 115 mm (H × W × D)		
Cut out dimensions	138 mm × 138 mm (H × W)		
Weight	0.8Kg		
Protection	IP 65 (NEMA 4X)		

* The specifications and appearance of the instrument are subject to change without notice.

Accessory: Panel Mounting clip kit, Plastic L-shaped sensor holder support base

Optional accessories:

1. D.O. sensor
2. Membrane kit
3. Electrolyte & Clean solution
4. Immersive protection holder
5. Junction box
6. Extension cable
7. Auto clean kit
8. Stainless holder support base
9. Sun shield for wall or pipe mounting



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