

Water Quality Analysis Dissolved Oxygen Sensor

WS102-DOS

WS102-DOS is a smart water quality analysis Dissolved Oxygen Sensor, which can be used in tap water, sewage treatment, wastewater treatment, aquaculture and environmental monitoring, etc.

At the same time built-in temperature detection, measuring range 0 \sim 60 $^{\circ}$ C. Signal output mode supports RS485(Modbus RTU) and 4 \sim 20mA.







Features & Benefits

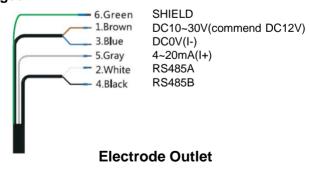
Out on Branch			
System Parameter			
Power supply	DC10-30V(Recommend 12V)		
Pressure range	0~300KPa		
Shell material	PC+316L		
Cable length	5m or customize		
Protection grade	IP68		
Weight	0.5kg(Without packaging)		
Inspection Parameter			
Measuring Range	0~20mg/L		
Resolution	0.01mg/L		
Accuracy	±0.2%FS		
Temperature range	0~60°C		
Resolution	0.1°C		
Accuracy	±0.3°C		
Temperature compensation	Automatic		
Output	RS485(Modbus RTU);4~20mA		
Communication Protocol Basic Parameter			
Protocol	Modbus RTU		
Data bits	8 bit		

Parity bit	No
Stop bit	1
Error Detecting Code	CRC
Baud Rate	9600bps(Default)

Address Description				
Name	Register Address	Data Type	Length	Description
Measurements	0x 00 01	Floating point	2	Storage location for measured value
Temperature	0x 00 03	Floating point	2	Storage location for measured temperature
Current output	0x 00 05	Floating point	2	Output current based on DO measurements
Warning	0x 00 07	Integer	1	00: Normal 01: Measurement exceeds the upper limit 02: Measurement exceeds the lower limit 03: Temperature exceeds the upper limit 04: Temperature exceeds the lower limit
Device address	0x 00 19	Integer	1	Default Value:1;1~254
Band Rate	0x 00 1A	Integer	1	0=2400 , 1=4800 , 2=9600(Default) 3=19200 , 4=38400
Restore factory	0x 00 1B	Integer	1	

✓ Electrode wiring

- Please follow the instructions carefully , the wrong wiring will damage the product completely.
- Please carefully check all the wiring in the system and confirm that the wiring is complete right before switch on the power.
- Note: RS48SA line and RS48SB line are strictly forbidden to contact with the power supply line, otherwise the communication of the electrode will be permanently damaged.



Ordering Information

Model	Description		
WS102-DOS	DISSOLVED OXYGEN SENSOR, 0~20MG/L, TEMP. MEASURING RANGE: 0~60°C, 5 METER CABLE, RS485 MODBUS, 10-30V POWER		
	Package List		
	1 x Product Unit		
	1 x QIG		