

[Features]

- Principle: UV absorption; organics absorb 254 nm UV light.
- UV254 LED source, long life and low drift; filtered for stability.
- Measures COD, BOD, TOC, turbidity and temperature.
- Reagent-free COD measurement with no secondary pollution.
- Built-in automatic turbidity compensation resists interference.
- Dual RS-485 and WiFi interfaces; RS-485 runs standard Modbus
- Sample-based calibration allows on-site adjustment.
- Low power draw; internal circuitry designed against interference.
- Compact, self-cleaning against biofouling; interval adjustable.
- IP68 rated, CNS 14165 tested for long-term submersion.
- Principle: complies with EPA method NIEA W518.51C
Dissolved organics absorb 254 nm UV light; the absorption gives the COD value, while an 850 nm beam measures SS with auto turbidity and colour compensation.



[Applications]

Aquaculture, wastewater plants, surface water, waterworks, reservoirs and marine monitoring.

[COD1500 Model Selection] COD1500-Code 1-Code 2-Code 3

Code 1	Sensor Cable	Code 2	Gateway Cable	Code 3	WiFi Function
N	10 m + Cable End	N	3 m	N	Sensor Output
C	10 m + Quick Conn.	C	3 m + Quick Conn.		
Value	Cable Length	Value	Cable Length	W	WiFi Web Page
Value C	Length + Quick Conn.	Value C	Length + Quick Conn.		

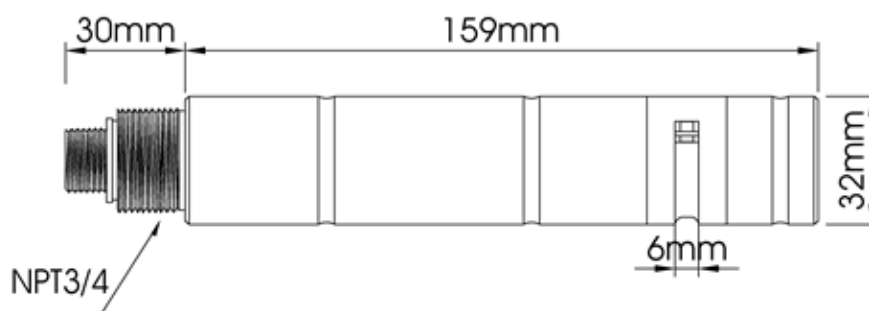
※Optional Sample-COD service for on-site sample calibration

※If Code 3 = N, please select N for Code 2

[COD1500 Specifications]

COD1500 Specifications					
Power	DC 9~36V, 2W				
Dimensions (mm)	ø 32x189				
Material	SUS316L				
Protection	IP68 (CNS 14165)				
Operating	Temp.: 0~50℃ Pressure: ≤ 0.1MPa				
Interface	RS-485 Modbus RTU				
Measurement					
	COD	BOD(calc.)	TOC(calc.)	Turbidity	Water Temp.
Range	0~1500mg/L	0~3000mg/L	0~600mg/L	0~4000NTU	0~50℃
Accuracy	±5%	±5%	±5%	±5%	±0.5℃

[Dimensions] Unit:mm



[Electrode Notes]

Optical COD measurement is an alternative to the dichromate method, the most economical option with no added reagent cost, enabling continuous online monitoring. Every JNC electrode is calibrated with standard solution under an ISO 9001 procedure before shipment.

To remove background interference, take an on-site sample and use the dichromate method to confirm the concentration, then run an on-site sample calibration for a more accurate reading.

JNC offers (optional) on-site dichromate-method sample calibration; in practice an on-site sample and a 10x dilution are used, giving a two-point calibration at low (10x dilution) and high (on-site sample).

Item	Model
COD dichromate calibration	Sample-COD