

Most organic matter dissolved in water is absorbent to ultraviolet light. Therefore, the content of dissolved organic pollutants in water can be accurately measured by measuring the extent to which these organics absorb UV light at 254nm. The RK500-25 COD sensor adopts two light sources, one is ultraviolet light for measuring COD content in water and the other is reference light for measuring turbidity in water. The optical path attenuation is compensated by a specific algorithm, which can eliminate the interference of particulate suspended matter impurities on the measurement results to a certain extent, thus making the measurement results more stable and reliable.

### FEATURES

- No reagent, no pollution, more economic and environmental protection
- Sapphire measurement window, not afraid of sand abrasion
- Using advanced third-order curve method to ensure accurate measurement
- With cleaning brush, automatic cleaning, can prevent biological adhesion
- Small drift, fast response and more accurate measurement
- Excellent stability
- Maintenance free, long service life and low cost
- RS-485 interface, Modbus / RTU protocol



### APPLICATIONS

- Environmental protection
- Agriculture
- Aquaculture
- Water conservancy
- Sewage treatment
- Soil remediation

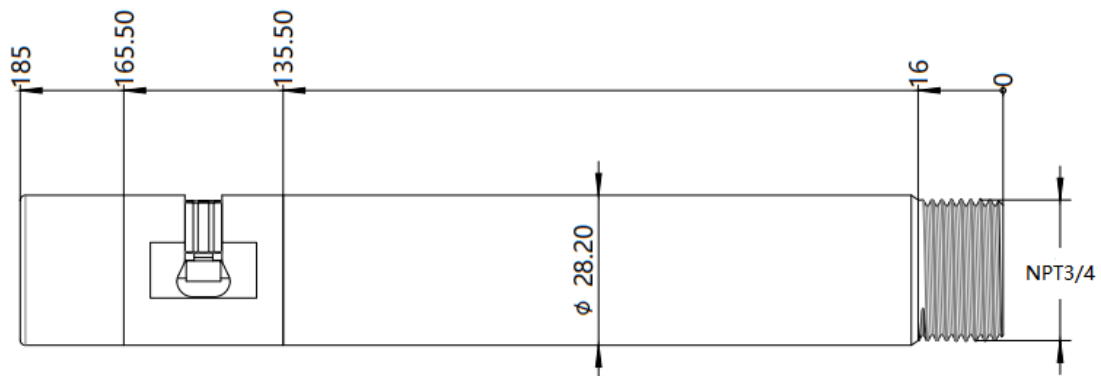
### TECHNICAL SPECIFICATION

Item		Technical Specification
Measurement Principle		Dual wavelength 254nm and 550nm absorption method
Standard		DIN 38402 C2, DIN 38404 and HJ T191
Range	COD	0-500mg/L, 0-1000mg/L
	Turbidity	0-200NTU
Accuracy		±5%F.S
Resolution		0.02mg/L
Supply		DC12-28V
Power consumption		When the cleaning brush is not working: <0.2W During cleaning brush operation: <1.5W

Response time	<2s
Output signal	4-20mA&RS485
Operating environment	-5-+60°C(<0.5MPa)
Cable length	5m(default), customizable
Probe material	316L stainless steel
Ingress protection	IP68
Storage	10-60°C @20%-90%RH

## DIMENSION




Unit:mm



Complies with applicable CE directives.  
 Specifications subject to change without notice. Version 4.0  
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**Hunan Rika Electronic Tech Co., Ltd**

Add:10th Bd, International Enterprise Center,  
 No.268 Xinxing Rd, Yuhua Dist,Changsha,  
 410116 Hunan, China.

-  +86-731-85132979
-  info@rikasensor.com
-  www.rikasensor.com