Digital output version optical fast DO sensor

RINKO Ⅱ / ⅡD

DO | Temperature | Depth

■Specifications

Model designation	RINKO Ⅱ		RINKO ⅡD		
Model name	ARO-CAR/CAD		ARO1-CAR/CAD (0 to 100m specification)		
Parameter	DO	Temperature	DO	Temperature	Depth
Principle	Phosphorescence	Thermistor	Phosphorescence	Thermistor	Semiconductor
Range	0 to 200%	−3 to 45℃	0 to 200%	−3 to 45℃	*0 to 50m (ARO 05) 0 to 100m (ARO 1) 0 to 200m (ARO 2) 0 to 500m (ARO 5)
Resolution	0.01 to 0.04%	0.001°C	0.01 to 0.04%	0.001°C	1/50,000 of range
Accuracy	Non-linirity ±2%FS	±0.02°C(3to31°C)	Non-linirity ±2%FS	±0.02°C(3to31°C)	±0.3%FS
Output	RS-232C(-CAR)or RS-485(-CAD)				
Communication	Handshake				
Cable length	20m, standard				
A/D convertor	16-bit digital conversion				
Power	External 12V DC				
Current consumption	35mA				
Housing material	Titanium (grade 2)				
Dimensions	φ54mm×184mm		φ70mm×173mm		
Weight	Approx. 0.5 kg in air, 0.3 kg in water		Approx. 1.0 kg in air, 0.5 kg in water		
Depth rating	1,000m depth equivalent		1,000m depth equivalent within maximum range of pressure sensor		

*Select a depth rating. According to the depth rating, the model is changed.

■Description

Rinko II is a digital output version with the fast optical DO sensor. The instrument can be easily integrated on platforms, because it works with communications by RS-232C or RS-485 and an external power (12DCV). *Rinko IID* has not only a temperature sensor but also a depth sensor. Their models can monitor DO in real time, if you have a personal computer and an external power.

ARO1-CAR

ARO-CAR

Analog output version optical fast DO sensor

RINKO Ⅲ

DO | Temperature

■Description

Rinko III is an analog version with the fast optical DO sensor and a temperature sensor. With an external 12 DCV power, the instrument seamlessly outputs the analog data (0 to 5V) of the sensors. *Rinko III* can be easily integrated on various platforms with an Impulse cable. By the fast response, the instrument provides high accurate DO data without restricting profile speeds.

CTD connector

■Specifications

Model designation	RINKO Ⅲ	
Model name	ARO-CAV	
Parameter	DO	Temperature
Principle	Phosphorescence	Thermistor
Range	0 to 200%	−3 to 45℃
Resolution	0.01 to 0.04%	0.001°C
Accuracy	Non-linirity ±2%FS	±0.02°C(3 to 31°C)
Output	Analog voltage (0 to 5V)	
Power	12V DC	
Current consumption	35mA	
Housing material	Ti-6Al-4V	
Dimensions	φ54mm×252mm	
Weight	Approx. 0.8 kg in air, 0.5 kg in water	
Pressure resistance	7,000m depth equivalent	
Connector	AG306-HP(Impulse Technologies, Inc.)	

*Buy the integration cable yourself.

■Drawing ARO1-USB