
OVA TRANSDUCERS
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www.ova.technology
2026

OVA Technology, founded in 2001, has over 20 years of industry experience. It specializes in the R&D and manufacturing of transducers.

History

2001
Registered the OVA trademark and initiated the R&D and promotion of low-power transducers.

2003
Develop high-power transducers

2009
Obtained ISO 9001 certification from CCS.

2015
Launched high-performance high-power transducers.

2019
Added multiple new designs, and expanded high/low-power transducer series.

2022
Launched Doppler and electromagnetic log transducers, and 28k high-power fish finder transducers.

2024
Developed and launched CHIRP transducers.

2025
Developed multi-beam and phased array transducers.



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Chirp Transducers

A-TC333B 04
A-TC232B 05
A-TC23B-H 06
A-TC25S-H 07
A-TC254B-H 08
A-TC372B 09

Echo Sounder Transducers

A-TD35R-50 10
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Sensors

CP90 Heading Sensor 59
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*Optional depth+temperature (Marked product)

Water Temperature Transducer

A-TT03B 40



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Model **A-TC333B**

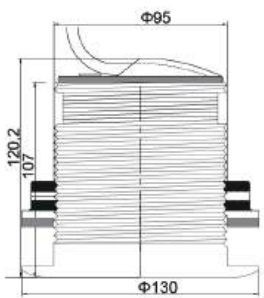
Tilted Element 0°,12°, 20°



Specifications	
Frequency	Chirp L(40-60 kHz) M(85-135 kHz) H(130-210KHz) HW(150-250KHz)
Power	1KW
Cable Length	10m
Material	Bronze

Dimension Drawing

Unit: mm



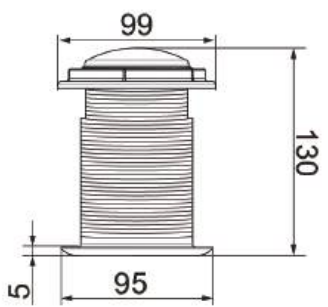
Model **A-TC232B**

Tilted Element 0°,12°, 20°



Specifications	
Frequency	Chirp L(40-60 kHz) M(85-135 kHz) H(130-210KHz) HW(150-250KHz)
Power	600W
Cable Length	10m
Material	Bronze

Dimension Drawing Unit: mm



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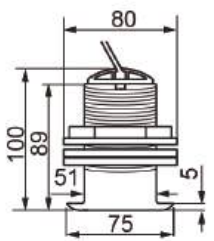
Model **A-TC23B-H**



Specifications	
Frequency	Chirp H(130-210KHz)
Power	600W
Cable Length	10m
Material	Bronze

Dimension Drawing

Unit: mm



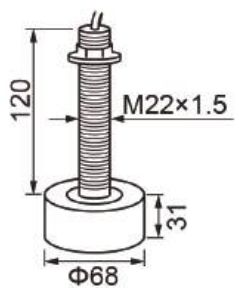
Model **A-TC25S-H**



Specifications	
Frequency	Chirp H(130-210KHz)
Power	600W
Cable Length	10m
Material	Stainless Steel

Dimension Drawing

Unit: mm



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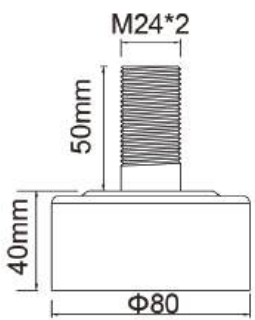
Model **A-TC254B-H**



Specifications	
Frequency	Chirp H(130-210KHz)
Power	600W
Cable Length	10m
Material	Bronze

Dimension Drawing

Unit: mm



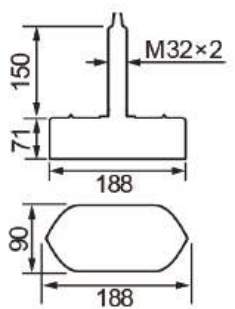
Model **A-TC372B** **Dual Frequency**



Specifications	
Frequency	Chirp L/H Low: 40-60 kHz High: 130-210 kHz
Power	1KW
Cable Length	10m
Material	Bronze

Dimension Drawing

Unit: mm



Model **A-TD35R-50**

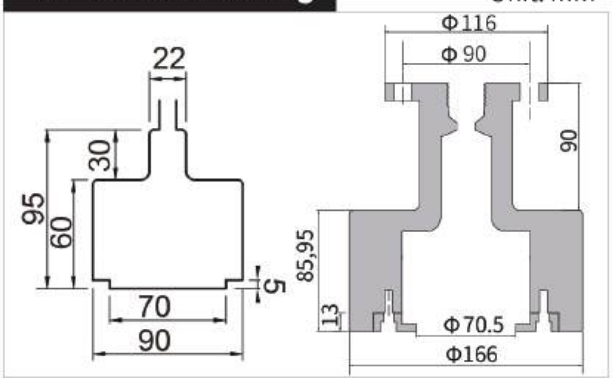




Specifications	
Frequency	50KHz
Power	1KW
Beam width/Impedance	44° / 250Ω ±40%
Cable Length	12m
Material	Rubber

Dimension Drawing

Unit: mm



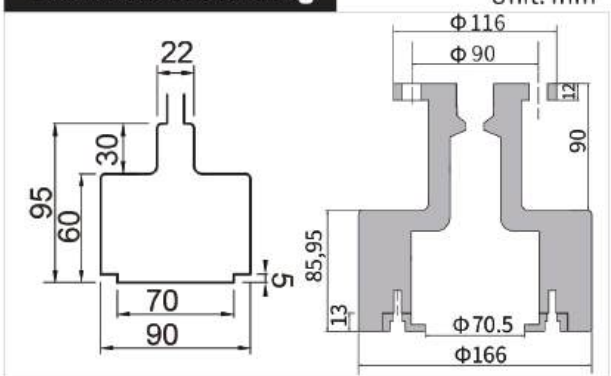
Model **A-TD35R-200**



Specifications	
Frequency	200KHz
Power	1KW
Beam width/Impedance	11° / 250Ω ±40%
Cable Length	12m
Material	Rubber

Dimension Drawing

Unit: mm

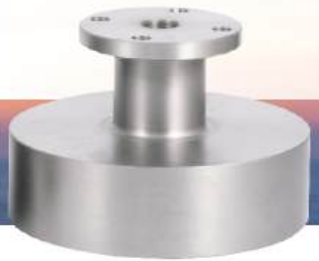


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Model **A-TD352R-200**



Tank （Optional）

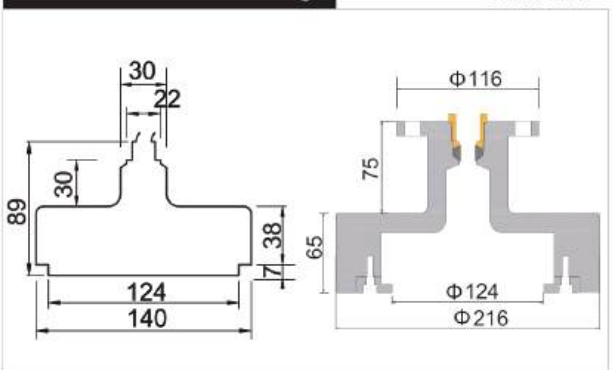


Specifications

Frequency	200KHz
Power	1KW
Beam width/Impedance	6° / 60Ω ±40%
Cable Length	20m
Material	Rubber

Dimension Drawing

Unit: mm



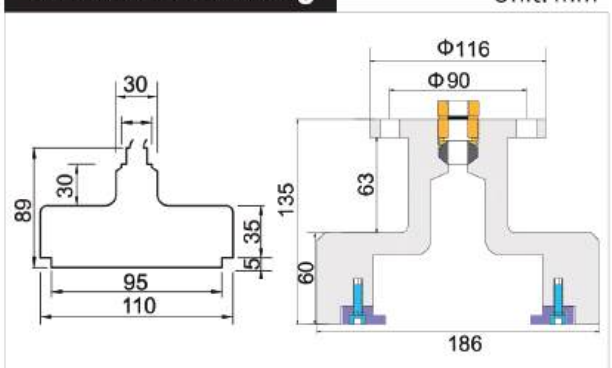
Model **A-TD353R-200**



Specifications	
Frequency	200KHz
Power	2KW
Beam width/Impedance	5.5° /160Ω ±30%
Cable Length	20m
Material	Rubber

Dimension Drawing

Unit: mm



Model **A-TD354R-200**

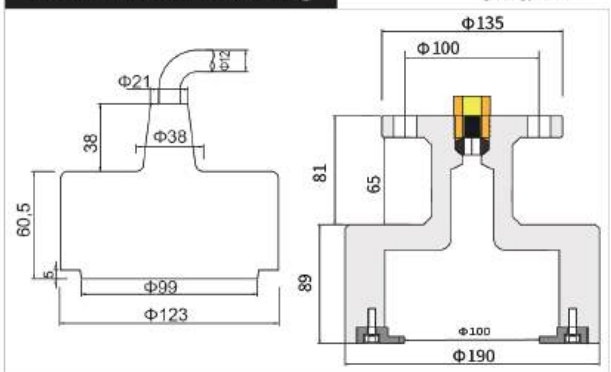


Specifications

Frequency	200KHz
Power	1KW
Beam width/Impedance	5.5° / 160Ω ±30%
Cable Length	20m
Material	Rubber

Dimension Drawing

Unit: mm



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Model **A-TP820S1M1 (Single-Axis)**

Doppler Speed Log Transducer & Tank & Gate Valve

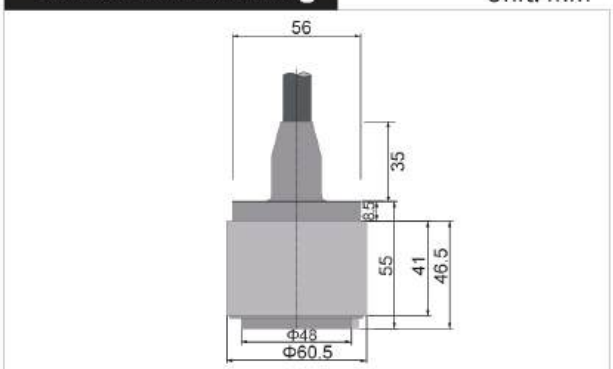


Specifications

Operation Frequency	1MHz
Speed Measurement Range	Longitudinal: -40.0 ~ 40.0kn
Temperature	-5°C~+35°C
Protection Level	IPX8

Dimension Drawing

Unit: mm



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Model **A-TP820S1M2 (Dual-Axis)**

Doppler Speed Log Transducer & Tank & Gate Valve

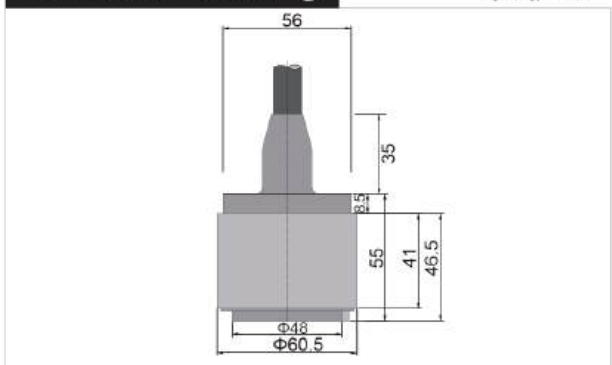


Specifications

Operation Frequency	1MHz
Speed Measurement Range	Longitudinal: -40.0 ~ 40.0kn Transverse: -40.0 ~ 40.0kn
Temperature	-5°C~+35°C
Protection Level	IPX8

Dimension Drawing

Unit: mm



Model A-TE571S Electromagnetic Speed Log Sensor

The electromagnetic sensor houses a coil which, when energised with an AC current, produces a magnetic field around the sensor in the surrounding water. The ship's motion through the water produces an electrical field perpendicular to the magnetic field and the ship's motion. The resulting signal is picked up by the sensor electrodes and fed to the preamplifier, where it is converted into a digital format and transmitted to the master unit.



Features

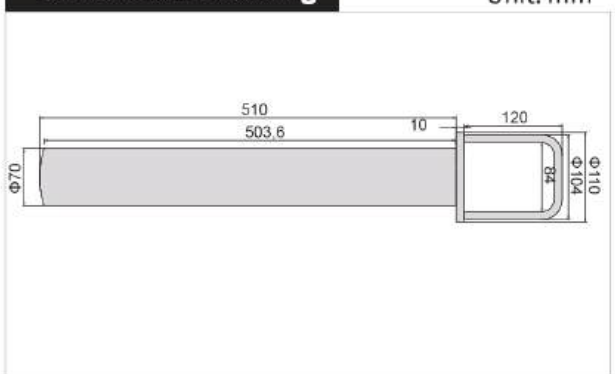
- Supports hot plugging
- Good linearity
- High sensitivity
- Backward speed can be measured

Range

Speed: –40kn~40kn

Dimension Drawing

Unit: mm



Gate Valve

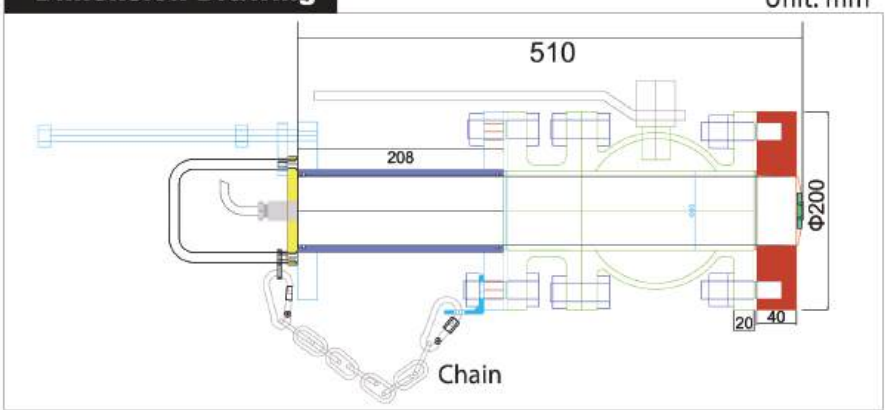
For Electromagnetic Speed Log Sensor A-TE571S





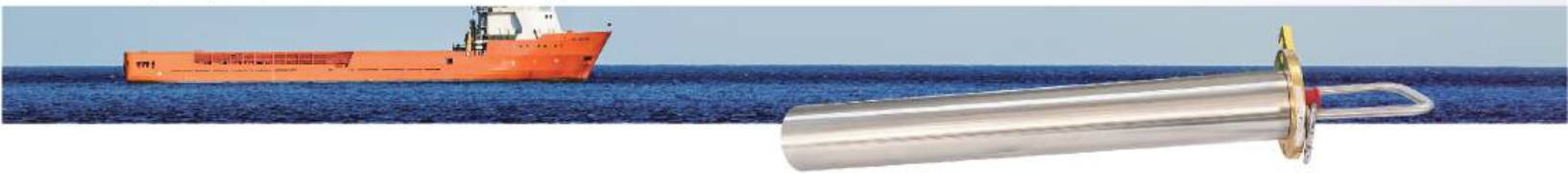
Dimension Drawing

Unit: mm



Model A-TE571S1 Electromagnetic Speed Log Sensor(Single-Axis)

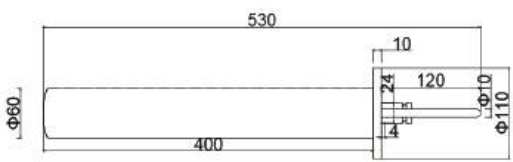
The electromagnetic sensor houses a coil which, when energised with an AC current, produces a magnetic field around the sensor in the surrounding water. The ship's motion through the water produces an electrical field perpendicular to the magnetic field and the ship's motion. The resulting signal is picked up by the sensor electrodes and fed to the preamplifier, where it is converted into a digital format and transmitted to the master unit.



Specifications

Speed Measurement Range	Longitudinal: -40.0 ~ 40.0 kn
Speed accuracy	± 2% or 0.2 kn, whichever is greater
Temperature	-5°C~+35°C
Protection Level	IPX8

Dimension Drawing



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Model A-TE571S2 Electromagnetic Speed Log Sensor(Dual-Axis)

The electromagnetic sensor houses a coil which, when energised with an AC current, produces a magnetic field around the sensor in the surrounding water. The ship's motion through the water produces an electrical field perpendicular to the magnetic field and the ship's motion. The resulting signal is picked up by the sensor electrodes and fed to the preamplifier, where it is converted into a digital format and transmitted to the master unit.

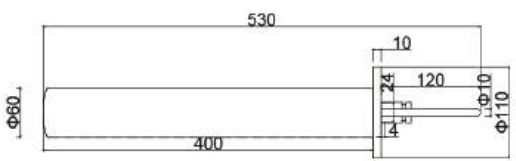


Specifications

Speed Measurement Range	Longitudinal: -40.0 ~ 40.0 kn Transverse: -40.0 ~ 40.0 kn
Speed accuracy	± 2% or 0.2 kn, whichever is greater
Temperature	-5°C~+35°C
Protection Level	IPX8

Dimension Drawing

Unit: mm



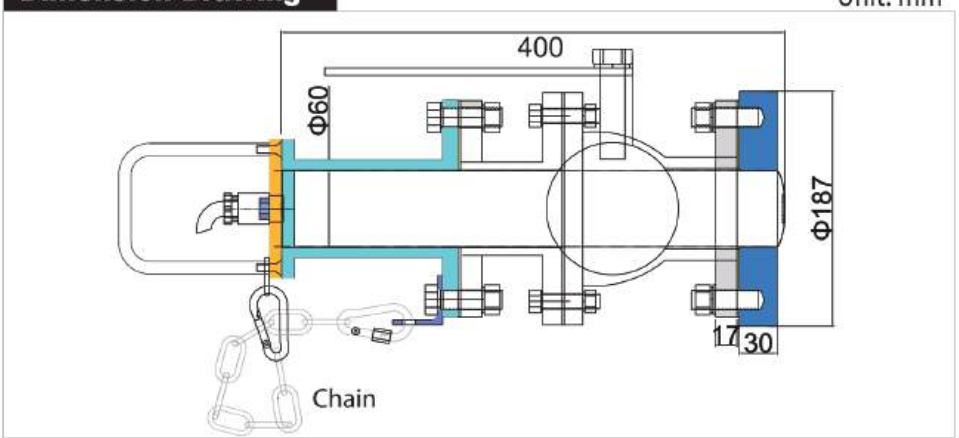
Gate Valve

For Electromagnetic Speed Log Sensor A-TE571S1/A-TE571S2



Dimension Drawing

Unit: mm



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Model A-TE521B Electromagnetic Speed Log Sensor

The electromagnetic sensor houses a coil which, when energised with an AC current, produces a magnetic field around the sensor in the surrounding water. The ship's motion through the water produces an electrical field perpendicular to the magnetic field and the ship's motion. The resulting signal is picked up by the sensor electrodes and fed to the preamplifier, where it is converted into a digital format and transmitted to the master unit.

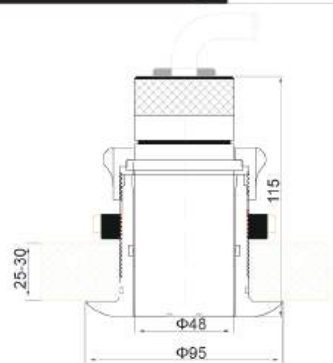


Specifications

Speed Measurement Range	Longitudinal: -12.5 ~ 40.0 kn
Speed accuracy	± 2% or 0.2 kn, whichever is greater
Temperature	-5°C~+35°C
Protection Level	IPX8

Dimension Drawing

Unit: mm



Model A-TS274S DownScan | SideScan | Echo Sounder Transducer

Provide a clear image of the shallower depths below the vessel and what is happening on either side of the vessel,quickly transmitting the temperature of the water.
Clearer than traditional sonar in terms of imagery and can image the structure.

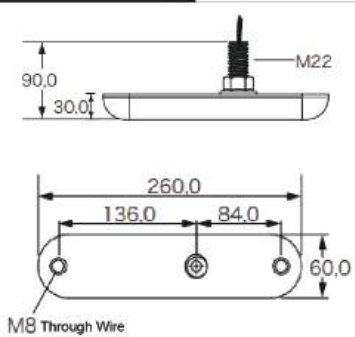


Specifications

Frequency/Power	455&800KHz/300W 200&83KHz/300W
Beam width/Impedance	3° &40° 12°
Cable Length	8M
Material	Stainless steel

Dimension Drawing

Unit: mm



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Model A-TN23B(NMEA0183/NMEA2000)



Specifications

Frequency/Power	200KHz/300W
Material	Bronze
Minimum Depth Range	0.5 m (1.6′)
Maximum Depth Range	Up to 100 m (330′)
Supply Voltage	5 VDC to 15 VDC
Standard Cable Length	10 m (33′)
Depth Accuracy	±0.1m
Temperature Accuracy	±0.5°C
Temperature Sensor Range	-10°C to 40°C

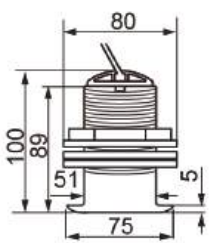
Data Output Protocol

NMEA 0183 Sentence Structure

$SDDPT ..... Depth
$SDMTW ..... Water Temperature
Frames Rate: 1Hz, Baud Rate: 4800bps

Dimension Drawing

Unit: mm



Model A-TN23P(NMEA0183/NMEA2000)



Specifications

Frequency/Power	200KHz/300W
Material	Plastic
Minimum Depth Range	0.5 m (1.6')
Maximum Depth Range	Up to 100 m (330')
Supply Voltage	5 VDC to 15 VDC
Standard Cable Length	10 m (33')
Depth Accuracy	±0.1m
Temperature Accuracy	±0.5°C
Temperature Sensor Range	-10°C to 40°C

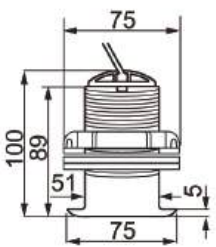
Data Output Protocol

NMEA 0183 Sentence Structure

$SDDPT ..... Depth
$SDMTW ..... Water Temperature
Frames Rate: 1Hz, Baud Rate: 4800bps

Dimension Drawing

Unit: mm



Model **A-TD29P** **Transom Transducer**

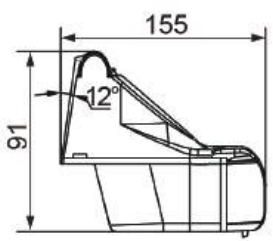
With water temperature and flow rate



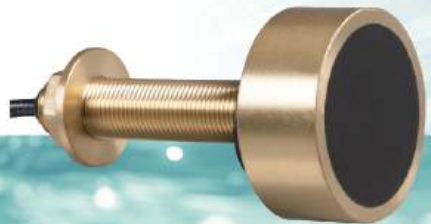
Specifications	
Frequency	50&200KHz
Power	600W
Beam width/Impedance	45° &11° 100Ω&200Ω ±30%
Cable Length/Pin	8m/10P
Material	Plastic

Dimension Drawing

Unit: mm



Model **A-TD25B**



Specifications	
Frequency	50&200KHz
Power	600W
Beam width/Impedance	45° *12° 200Ω&300Ω ±30%
Cable Length	10m
Material	Bronze

Dimension Drawing

Unit: mm



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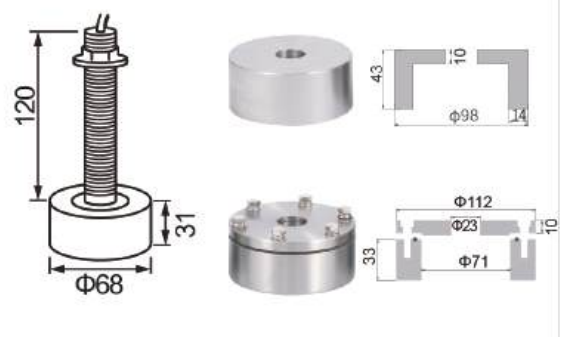
Model **A-TD25P**



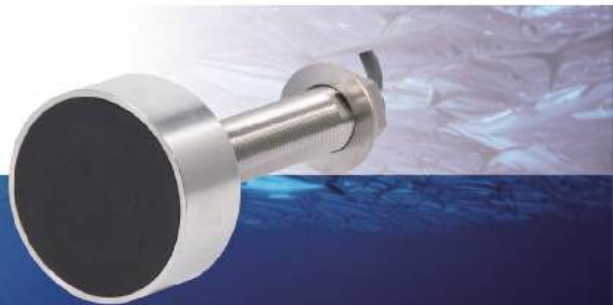
Specifications	
Frequency	50&200KHz
Power	600W
Beam width/Impedance	45° *12° 200Ω&300Ω ±30%
Cable Length	10m
Material	Plastic

Dimension Drawing

Unit: mm



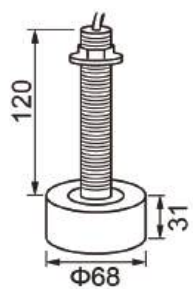
Model **A-TD25S**



Specifications	
Frequency	50&200KHz
Power	600W
Beam width/Impedance	45° *12° 200Ω&300Ω ±30%
Cable Length	10m
Material	Stainless Steel

Dimension Drawing

Unit: mm



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Model **A-TD252B**

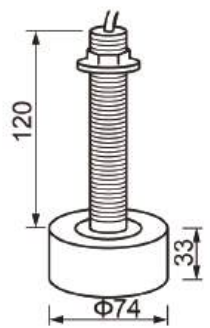


Specifications

Frequency	50&200KHz
Power	600W
Beam width/Impedance	40° &14° 200Ω &300Ω ±30%
Cable Length	10m
Material	Bronze

Dimension Drawing

Unit: mm



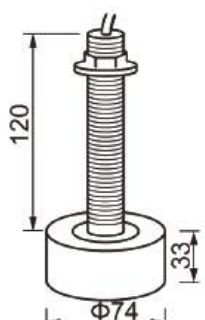
Model **A-TD252P**



Specifications	
Frequency	50&200KHz
Power	600W
Beam width/Impedance	40° &14° 200Ω &300Ω ±30%
Cable Length	10m
Material	Plastic

Dimension Drawing

Unit: mm



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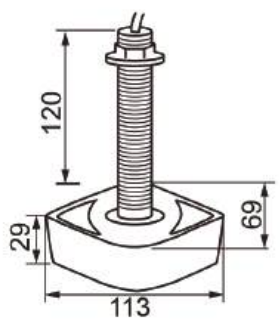
Model **A-TD22B**



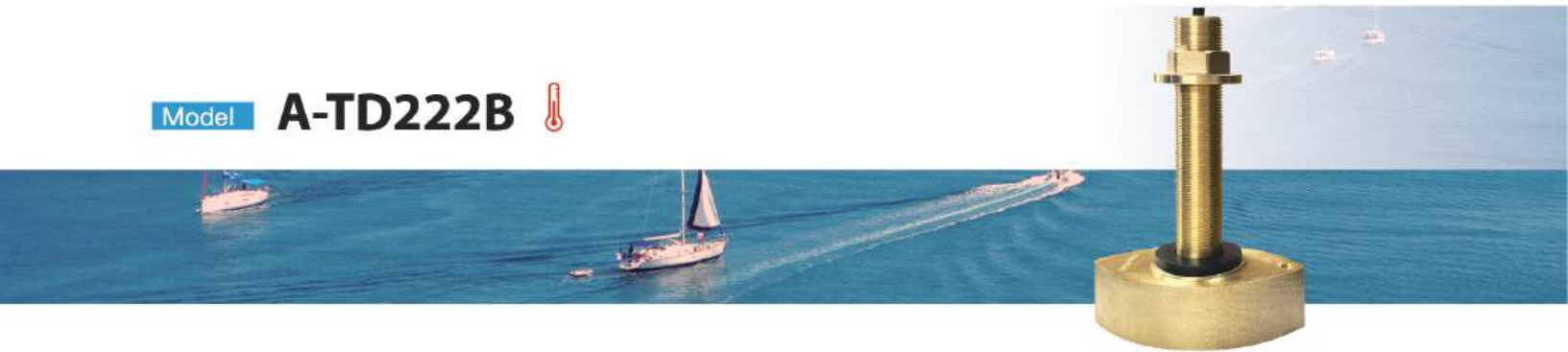
Specifications	
Frequency	50&200KHz
Power	600W
Beam width/Impedance	40° &11° 200Ω &300Ω ±30%
Cable Length	10m
Material	Bronze

Dimension Drawing

Unit: mm



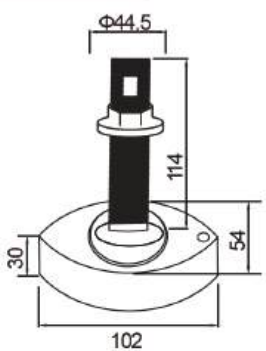
Model **A-TD222B**



Specifications	
Frequency	50&200KHz
Power	600W
Beam width/Impedance	40° &11° 200Ω &300Ω ±30%
Cable Length	10m
Material	Bronze

Dimension Drawing

Unit: mm



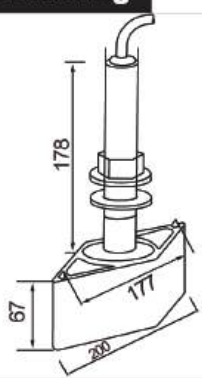
Model **A-TD223B**



Specifications	
Frequency	50&200KHz
Power	600W
Beam width/Impedance	45° *12° 200Ω&300Ω ±30%
Cable Length	10m
Material	Bronze

Dimension Drawing

Unit: mm



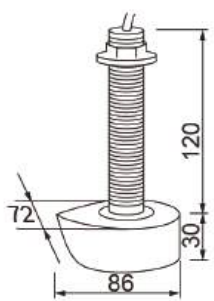
Model **A-TD26B**



Specifications	
Frequency	50&200KHz
Power	600W
Beam width/Impedance	55° &14° 200Ω &300Ω ±30%
Cable Length	10m
Material	Bronze

Dimension Drawing

Unit: mm



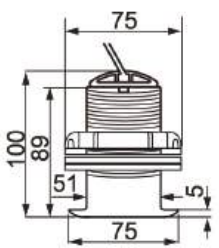
Model **A-TD23P**



Specifications	
Frequency	50&200KHz
Power	600W
Beam width/Impedance	45° *12° 200Ω&300Ω ±30%
Cable Length	10m
Material	Plastic

Dimension Drawing

Unit: mm



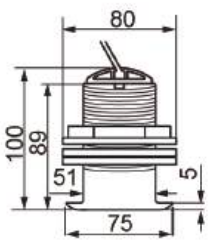
Model **A-TD23B**



Specifications	
Frequency	50&200KHz
Power	600W
Beam width/Impedance	45° *12° 200Ω&300Ω ±30%
Cable Length	10m
Material	Bronze

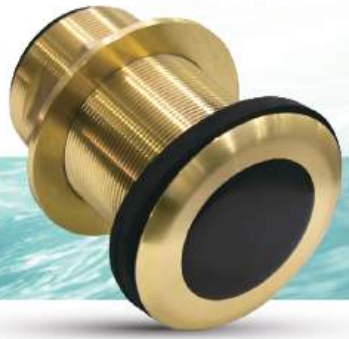
Dimension Drawing

Unit: mm



Model **A-TD232B**

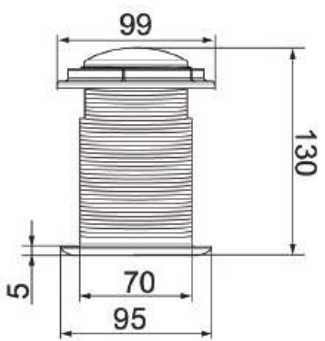
Tilted Element **0°,12°, 20°**



Specifications	
Frequency	50&200KHz
Power	600W
Beam width/Impedance	24° * 16° 200Ω & 300Ω ±30%
Cable Length	12m
Material	Bronze

Dimension Drawing

Unit: mm



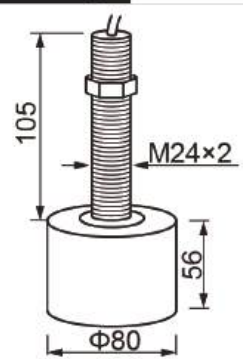
Model **A-TD254B/A-TD354B-50/A-TD354B-200**



Specifications	
Frequency/Power	50&200KHz/600W 50KHz/1KW 200KHz/1KW
Beam width/ Impedance	35° &11° / 380Ω &350Ω ±30% 28° /150Ω ±30% 10° /200Ω ±30%
Cable Length/Pin	10m/3P
Material	Bronze

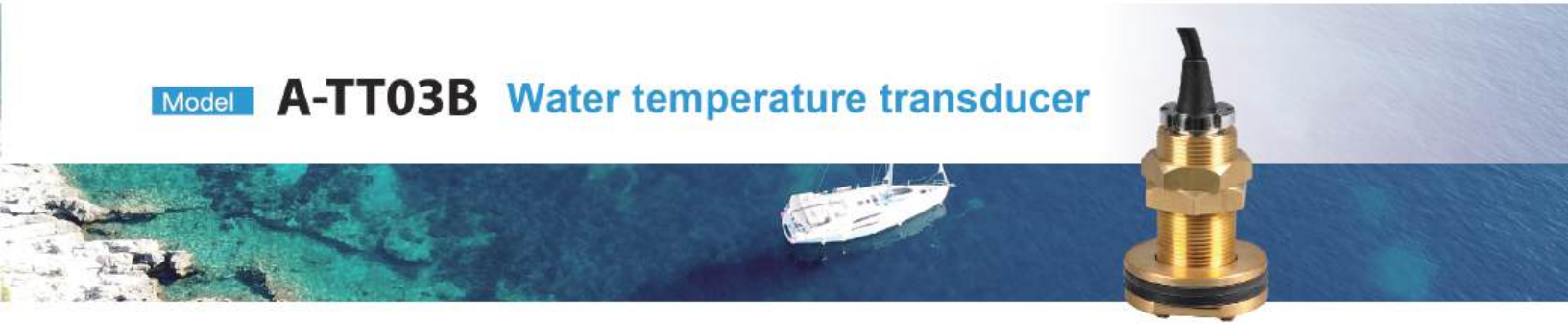
Dimension Drawing

Unit: mm



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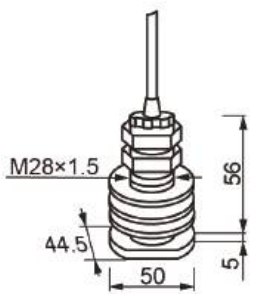
Model **A-TT03B** **Water temperature transducer**



Specifications	
Cable length	10M/15M
Pin	8P
Material	Bronze

Dimension Drawing

Unit: mm



Model **A-TD34R-200-D**

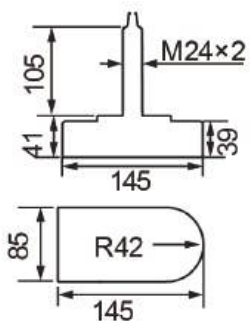


Specifications

Frequency	200KHz
Power	1KW
Beam width/Impedance	11° 300Ω ±30%
Cable Length/Pin	10m/3P
Material	Bronze

Dimension Drawing

Unit: mm



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Model **A-TD38R-200-D**

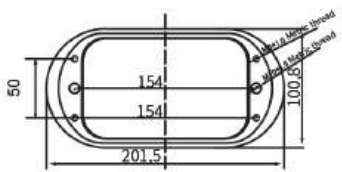


Specifications

Frequency	200KHz
Power	1.5KW
Beam width/Impedance	6° *10° 150Ω ±30%
Cable Length/Pin	15m/3P
Material	Rubber

Dimension Drawing

Unit: mm

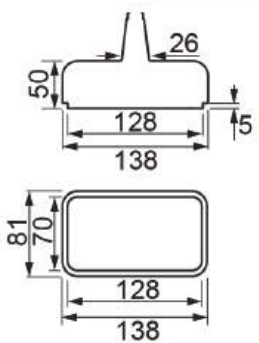


Model **A-TD38R-200**



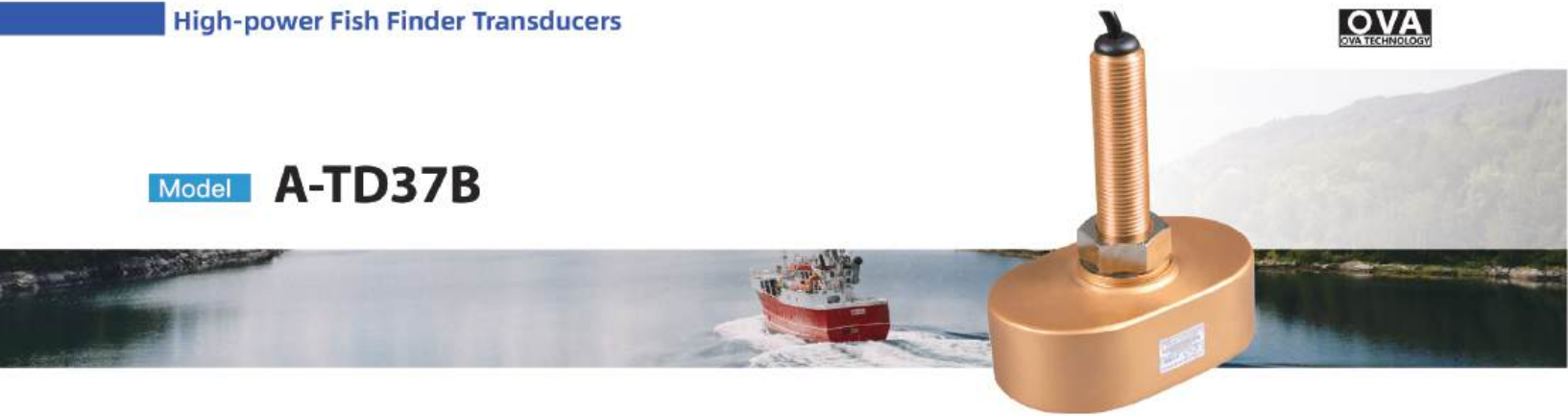
Specifications	
Frequency	200KHz
Power	1.5KW
Beam width/Impedance	6° *10° 150Ω ±30%
Cable Length/Pin	15m/3P
Material	Rubber

Dimension Drawing Unit: mm



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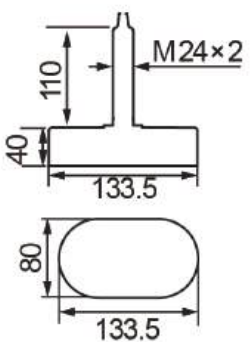
Model **A-TD37B**



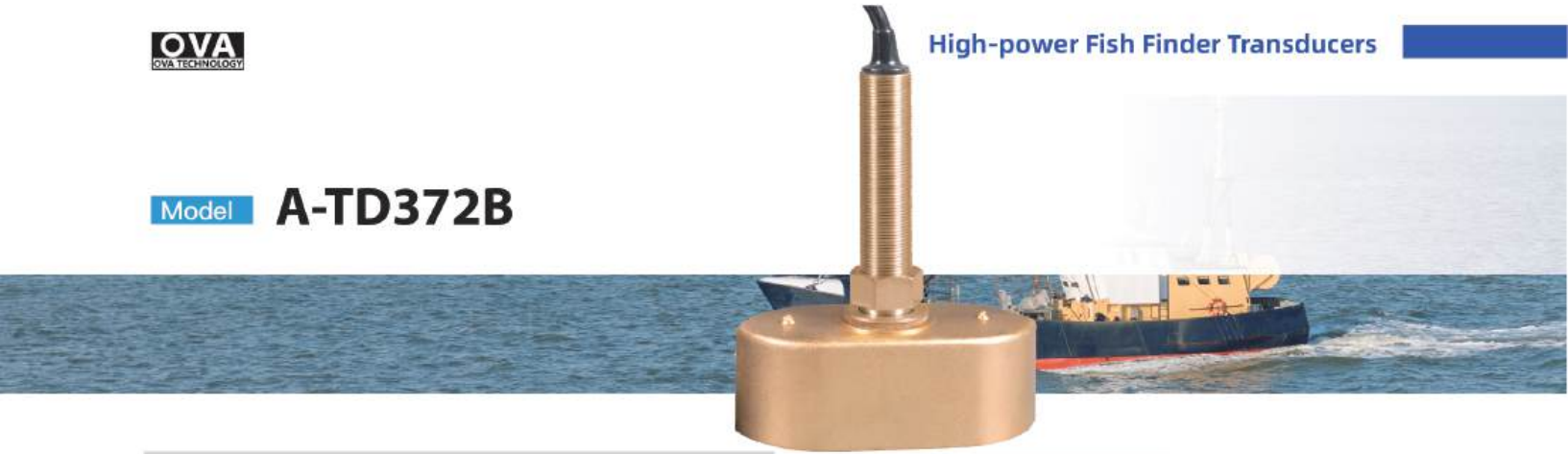
Specifications	
Frequency	50&200KHz
Power	1KW
Beam width/Impedance	18° * 18° & 6° * 12° 100Ω & 200Ω ±30%
Cable Length/Pin	10m/3P
Material	Bronze

Dimension Drawing

Unit: mm



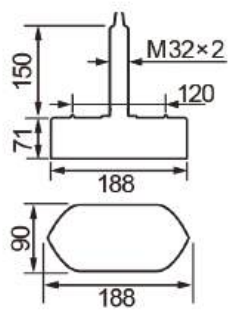
Model **A-TD372B**



Specifications	
Frequency	50&200KHz
Power	1.2KW
Beam width/Impedance	28° &10° 150Ω &300Ω ±30%
Cable Length/Pin	15m/5P
Material	Bronze

Dimension Drawing

Unit: mm



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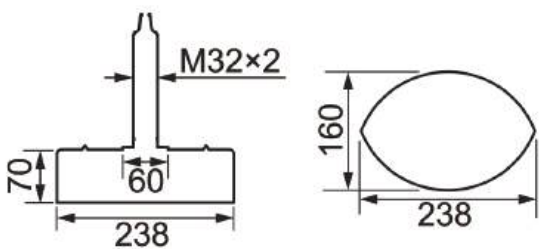
Model **A-TD32B**



Specifications	
Frequency/Power	50KHz/ 1.8KW& & 200KHz/ 1KW
Beam width/Impedance	14° * 14°& 10° 50Ω & 300Ω ±30%
Cable Length/Pin	15m/5P
Material	Bronze

Dimension Drawing

Unit: mm



Model **A-TD38R**

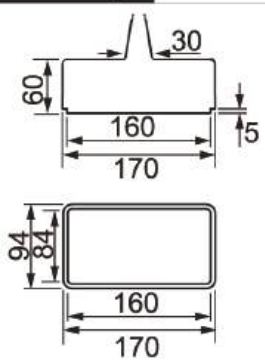




Specifications	
Frequency	50&200KHz
Power	1KW
Beam width/Impedance	28° * 10° 150Ω & 300Ω ±30%
Cable Length/Pin	15m/5P
Material	Rubber

Dimension Drawing

Unit: mm



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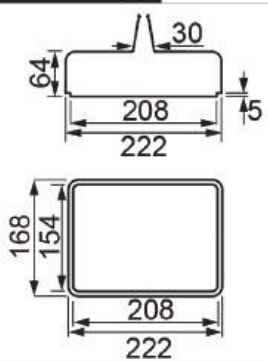
Model **A-TD382R**



Specifications	
Frequency/Power	50KHz/1.8KW & 200KHz/1KW
Beam width/Impedance	14° *14° &10° 50Ω&300Ω ±30%
Cable Length/Pin	15m/5P
Material	Rubber

Dimension Drawing

Unit: mm



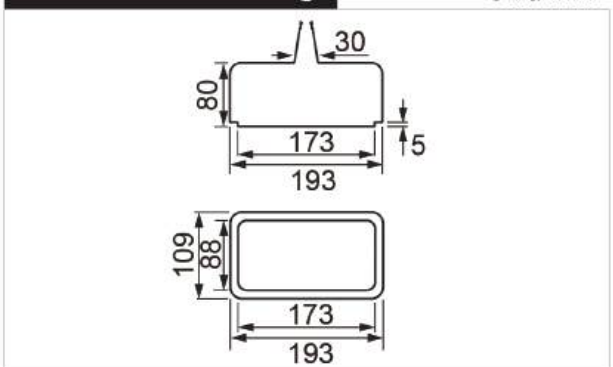
Model **A-TD68R**



Specifications	
Frequency/Power	50KHz/2KW&200KHz/1KW
Beam width/ Impedance	16° *12° &6° *12° 60Ω&250Ω ±30%
Cable Length/Pin	15m/5P
Material	Rubber

Dimension Drawing

Unit: mm



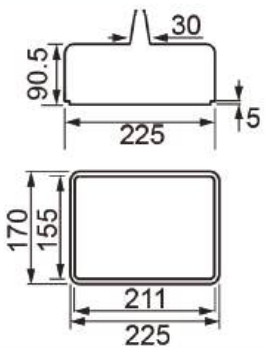
Model **A-TD882R**



Specifications	
Frequency/Power	50KHz/3KW& 200KHz/1KW
Beam width/Impedance	12° *20° &6° *12° 100Ω&250Ω ±30%
Cable Length/Pin	15m/5P
Material	Rubber

Dimension Drawing

Unit: mm

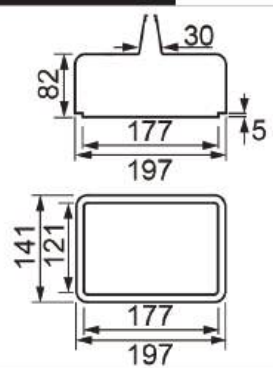


Model **A-TD88R-50**



Specifications	
Frequency	50KHz
Power	3KW
Beam width/Impedance	12° *20° 100Ω ±30%
Cable Length	15m
Material	Rubber

Dimension Drawing



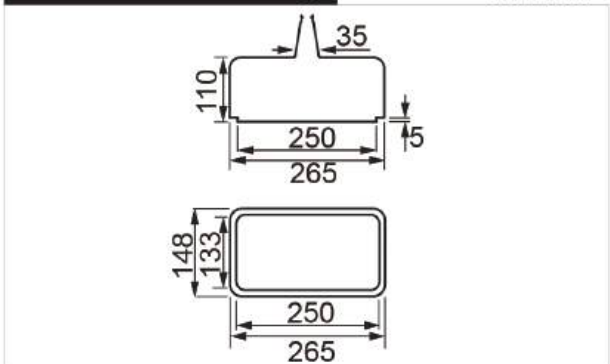
Model **A-TD98R**



Specifications	
Frequency	40&75KHz
Power	5KW
Beam width/Impedance	13° *18° &10° *16
Cable Length/Pin	15m/3P
Material	Rubber

Dimension Drawing

Unit: mm



Tank （Optional）

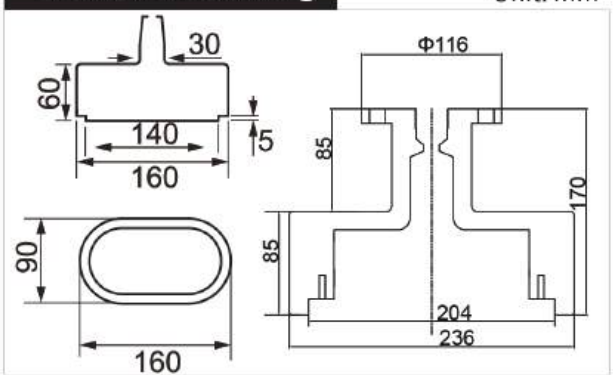
Model **A-TD372R**





Specifications	
Frequency	50KHz
Power	1.5KW
Beam width/Impedance	12° *28° / 100Ω ±30%
Cable Length	15m
Material	Rubber

Dimension Drawing Unit: mm



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Model **A-TD683P-28**

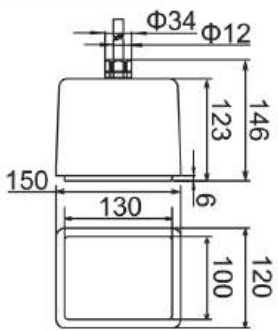


Specifications

Frequency	28KHz
Power	2KW
Beam width/Impedance	22° *32° / 60Ω ±30%
Cable Length	15m
Material	Plastic

Dimension Drawing

Unit: mm



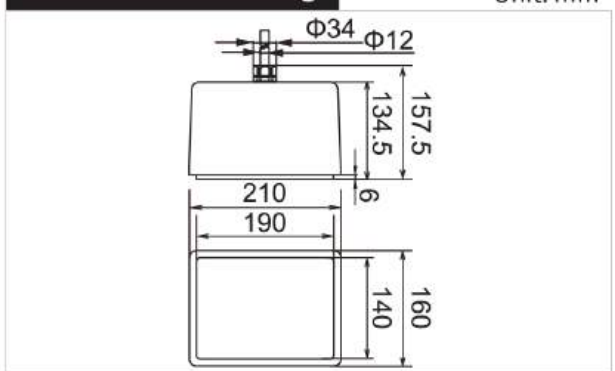
Model **A-TD884P-28**



Specifications	
Frequency	28KHz
Power	3KW
Beam width/Impedance	16° *21.5° / 60Ω ±30%
Cable Length	15m
Material	Plastic

Dimension Drawing

Unit: mm

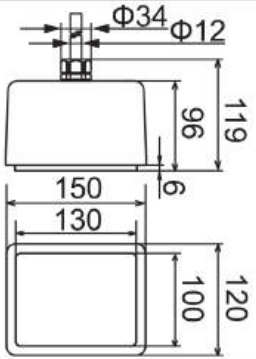


Model **A-TD682P-50**



Specifications	
Frequency	50KHz
Power	2KW
Beam width/Impedance	14° *18.5° / 70Ω ±30%
Cable Length	15m
Material	Plastic

Dimension Drawing Unit: mm



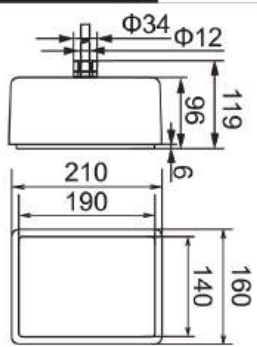
Model **A-TD883P-50**



Specifications	
Frequency	50KHz
Power	3KW
Beam width/Impedance	9° *14° / 70Ω ±30%
Cable Length	15m
Material	Plastic

Dimension Drawing

Unit: mm



Connector

Support Customization



3pin



8pin



3pin



5pin



4pin



6pin



8pin



9pin



10pin

Model CP90 Heading Sensor

Compass converter, mounted on the surface of the magnetic compass, converts the signal of magnetic compass into a digital signal to be display and output;
Digital tube display heading data



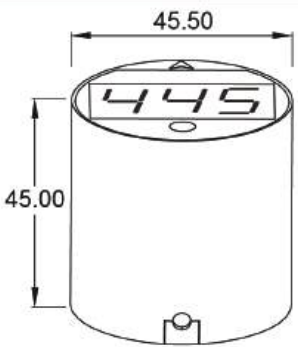
Adjust the frequency, baud rate, magnetic declination and other settings of NMEA0183 statement output by button

Specifications

Power	DC24V（10-35 V）
Data Interface	RS-422
Baud Rate	4800(default),9600,19200,38400, 57600,115200
Data Format	NMEA0183：HDT、HDM、HDG
Data Output Frequency	1Hz(default),5Hz, 10Hz,20Hz

Dimension Drawing

Unit: mm



RC42S Rate Compass

Electronic compass heading output, calculated according to the magnetic field.

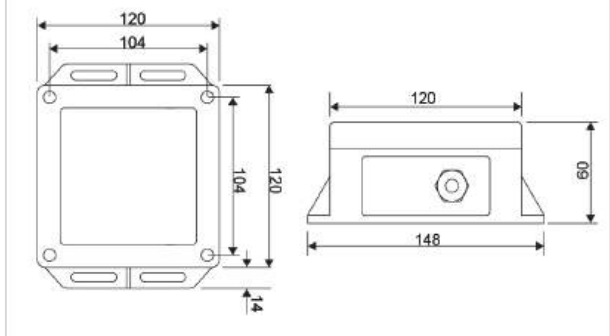


Specifications

Compass accuracy	2° RMS（Pitch＜40°）, 2.5° RMS (Pitch<60°), 3° RMS (Pitch<80°)
Heading Display Resolution	0.1°
Roll / roll range	±90°/±360°
Attitude parameters	after calibration±2°;
Interface	NMEA0183 RS422, NMEA2000
Supply voltage	9 VDC to 32 VDC

Dimension Drawing

Unit: mm




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