



PINGLIVE MINI SONAR INSTALLATION GUIDE

PART I Safety and Preparation	2
Pre-Installation Requirements	3
1. Software Update	3
2. Firmware Update	3
Tools and Parts	3
Parts Inventory	3
PART II Installation Diagram(Quick guide)	4
PART III Wi-Fi Router Installation guidelines	5
Mounting the unit	5
Wiring the unit	5
Built-in Self-recovery Fuse Protection	5
PART IV Transducer Mounting Guidelines	
PingLive Mini Bracket Instruction	6
Pole Mount Instruction	7
Shaft Mount Instruction	8
Transom Mount Instruction	9
PART V General Guidelines	10
PART VI Configuration and Connection	11
Configuration	11
Powering and Connecting the Wi-Fi Router	11
Setup Instructions	11
WiFi-Router Indicator Lights	11
PART VII Troubleshooting	12
PART VIII Specifications	13



SAFETY WARNING

PART I Safety and Preparation

- Follow all standard safety precautions and best practices to ensure safe operation.
- Sonar technology enhances underwater awareness but does not replace visual navigation—always operate your vessel responsibly.
- Improper installation or maintenance may cause equipment damage or personal injury. Carefully follow all setup instructions.
- For optimal performance and to prevent damage, adhere strictly to this guide. If you need assistance, contact Accuphy Support.

TRANSDUCER WARNING

- Do not leave the transducer powered on while out of the water for extended periods. The transducer uses water as a heatsink for its embedded processor.
- Do not bypass the Wi-Fi Router when connecting power to the transducer. Applying a voltage higher than 18V directly to the transducer may cause permanent damage, which is not covered under warranty.
- The transducer itself is designed to operate within a voltage range of 10-18V as stated in its specifications. Ensure proper setup to avoid damage.

INSTALLATION SUPPORT VIDEOS

You can view videos online for assistance when installing this device. You can access the videos by going to https://www.youtube.com/@Accuphy_Canada in your web browser.

Pre-Installation Requirements

Software Update

Keep your Accuphy Sonar App up to date by downloading the latest version from the Apple App Store or Google Play Store.

Firmware Update

To update the firmware on your PingLive Mini system, follow these steps

1. Connect to the Wi-Fi router and ensure the PingLive Mini transducer is powered on. Please refer to Part II, Part III and Part VI for connectivity setup.
2. Open the Accuphy Sonar app on your device.
3. Navigate to Settings > Firmware Update.
4. Select the correct Port Number for your transducer.
5. Tap Update and wait for the process to be completed.
6. Power off for at least 5 seconds after Firmware Update complete, and power on again. Repeat step 1-3, to check Firmware information again, to make sure Firmware is up to date.

Installation Videos

Watch step-by-step videos by scanning the QR code on the product packaging.

Tools and Parts

Required Tools

- Drill with an appropriate bit for the mounting surface
- Allen wrench and adjustable wrench
- Electrical tape or cable ties

Parts Inventory

Parts are organized in bags (1-3). Open bags as instructed.

Bag (1) consists of:

- Transom Mount Bracket x 1
- M8x50 stainless steel Screws x 1
- M8 Nuts x 1
- M5x16 self-tapping Screws x 2
- 8x14.5x2 PU Washer x 2
- 8x20x1.5 stainless steel Washer x 2
- 5x12x1 stainless steel Washer x 2
- Silicon Cable Grommet x 1

Bag (2) consists of:

- Horizontal Bracket x 1
- Vertical Plate x 1
- Rear Locking Pin x 1
- M8x45 stainless steel Screws x 1
- M8 Nuts x 1
- M3x6 stainless steel Screws x 5
- 8x24x1.5 PU Washer x 2

Bag (3) consists of:

- Bracket "D" x 1
- Bracket "E" x 1 for Pole Mount or Bracket "AC" x 1 for Shaft Mount (Optional, please purchase separately)
- Short Knob x 1
- 8x18x1 Rubber Washer x 1

- TPE Liner x 2
- M6x25 stainless steel Screws x 4

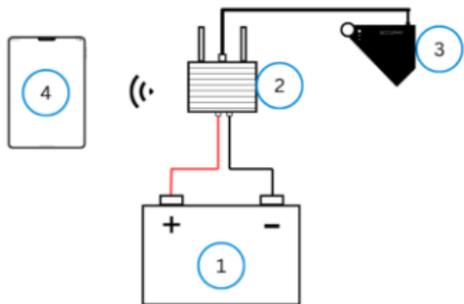


PART II Installation Diagram (Quick Guide)

Refer to the quick setup guide for installation instructions. Transducer mounting options are introduced later in this guide.

Installation Diagram (Wi-Fi Router)

- ① 10-18 V Battery
- ② Wi-Fi Router
- ③ PingLive Mini Transducer
- ④ Tablet/Phone (Not Included)



ACCUPHY

PART III Wi-Fi Router Installation Guidelines

Mounting The Router

1. Position the device at the desired mounting location and mark the pilot hole positions.
2. Drill a pilot hole in one corner.
3. Partially secure the device using one screw, then check the alignment of the remaining pilot holes.
4. If adjustments are needed, mark new pilot-hole locations and remove the device.
5. Drill the remaining pilot holes.
6. Secure the device firmly in place.

Wiring The Router

Refer to PART II for the wiring quick guide.

If a power cable extension is required for your setup, use the appropriate wire gauge:

- 10 AWG (5.26 mm²) – Up to 4.6m (15ft)
- 8 AWG (8.36 mm²) – Up to 7m (23ft)
- 6 AWG (13.29 mm²) – Up to 11m (36ft)
- Built-in Resettable Fuse Protection

Built-in Resettable Fuse Protection

The Accuphy Wi-Fi Router units are equipped with self-recovery fuses designed to protect against overcurrent conditions.

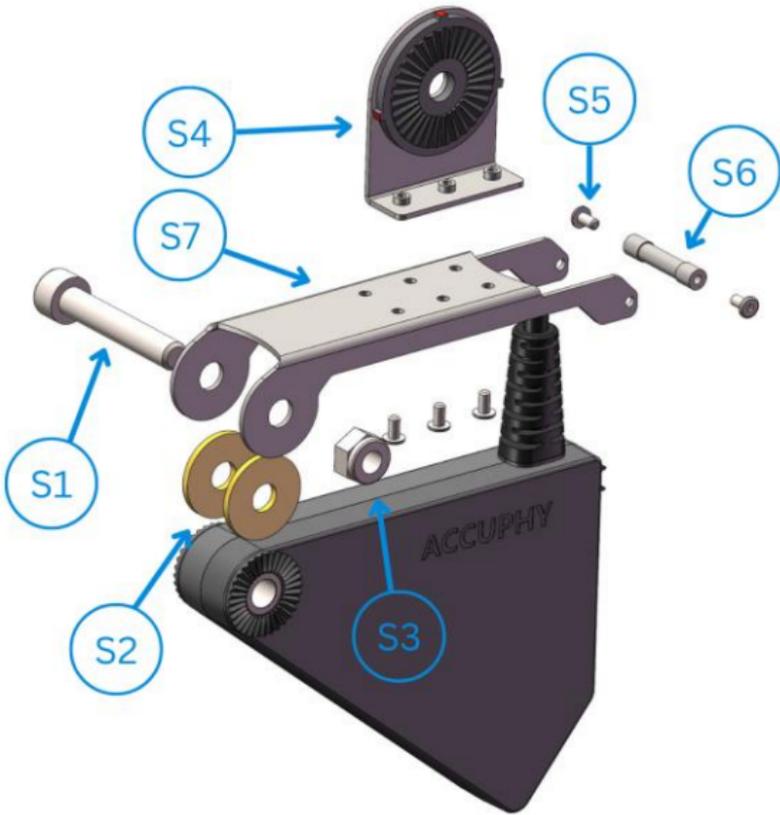
These fuses function similarly to traditional fuses by interrupting power when excessive current is detected. However, unlike conventional fuses that require manual replacement, self-recovery fuses automatically reset and restore power once the overcurrent condition is resolved.

Currently, the single-port Wi-Fi Router incorporates a built-in 7A self-recovery fuse. Future multi-port models will be equipped with fuses rated for higher current to meet increased power requirements.

PART IV Transducer Mounting Guidelines

PingLive Mini Bracket for Pole and Shaft Mount Instruction

Use parts from bag (2)

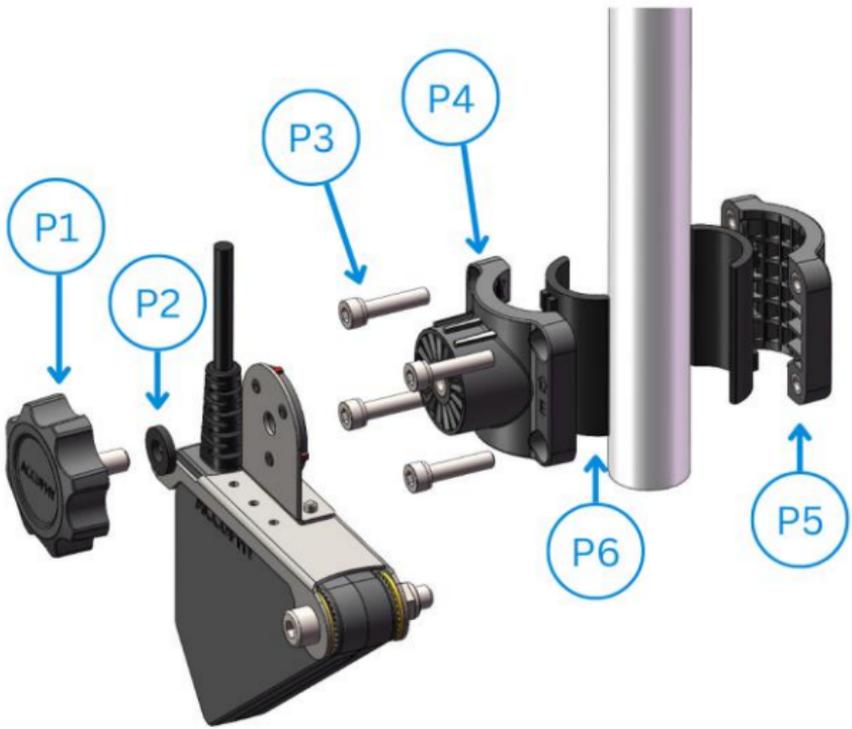


PingLive Mini Shaft and Pole Mount Bracket Setup

1. Position the Vertical Plate (S4) on top of the Horizontal Bracket (S7), align the mounting holes properly, based on intended Port side or Starboard side mounting position.
2. Insert three M3x6 screws (S5) through the Horizontal Bracket (S7) from the bottom to the Vertical Plate (S4) and secure them tightly.
3. Slide the Horizontal Bracket (S7) into position from the top of the transducer.
4. Insert the PU Washers (S2) between the transducer and the Horizontal Bracket (S7). Align the holes.
5. Insert the M8x45 Screw (S1) through the aligned holes of the transducer, using the Bolt Nut (S3) to tightly secure the bracket.
6. Make sure the PU washers (S2) are placed on both sides of the insides of the bracket.
7. At the back of the transducer place the Rear Locking Pin (S6) in the designated area.
8. Use two M3x6 screws (S5) to securely attach the Rear Locking Pin (S6) to the Horizontal Bracket (S7).
9. Perform a final inspection to verify that all parts (S1-S7) are properly installed and secure.

Pole Mount Instruction

Use parts from bag (3)

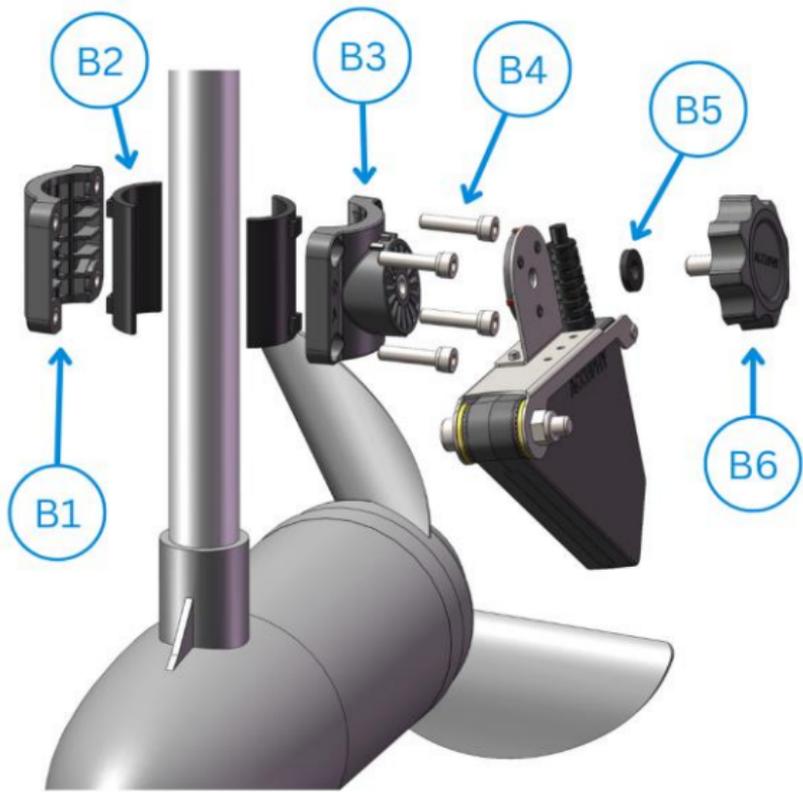


Pole Mount Setup

1. Take out the bracket "D" (P5) and the bracket "E" (P4).
2. If the pole is 28.6 mm (1.125 in.) or smaller in diameter, place the TPE liner (P6) inside the pole-mount brackets (P4, P5).
3. Align the bracket "E" (P4), ensuring the letter 'E' and the arrow marking are pointing upward.
4. Insert the M6x25 Screws (P3) into the brackets and tighten them using Allen wrench.
5. Attach the Rubber Washer (P2) to the short knob (P1), and insert the short knob (P1) into the mounting holes on the transducer bracket and bracket "E" (P4). Hand tighten the knob.
6. Secure the transducer cable along the pole or another stable location.
7. Route the cable carefully to the Wi-Fi Router while avoiding:
 - a) Contact with the propeller or other moving parts.
 - b) Placement near electric wiring or interference sources.
 - c) Pinching when the pole is moved or adjusted.

Shaft Mount Instruction

Use parts from bag (3) and optional part (purchase separately)

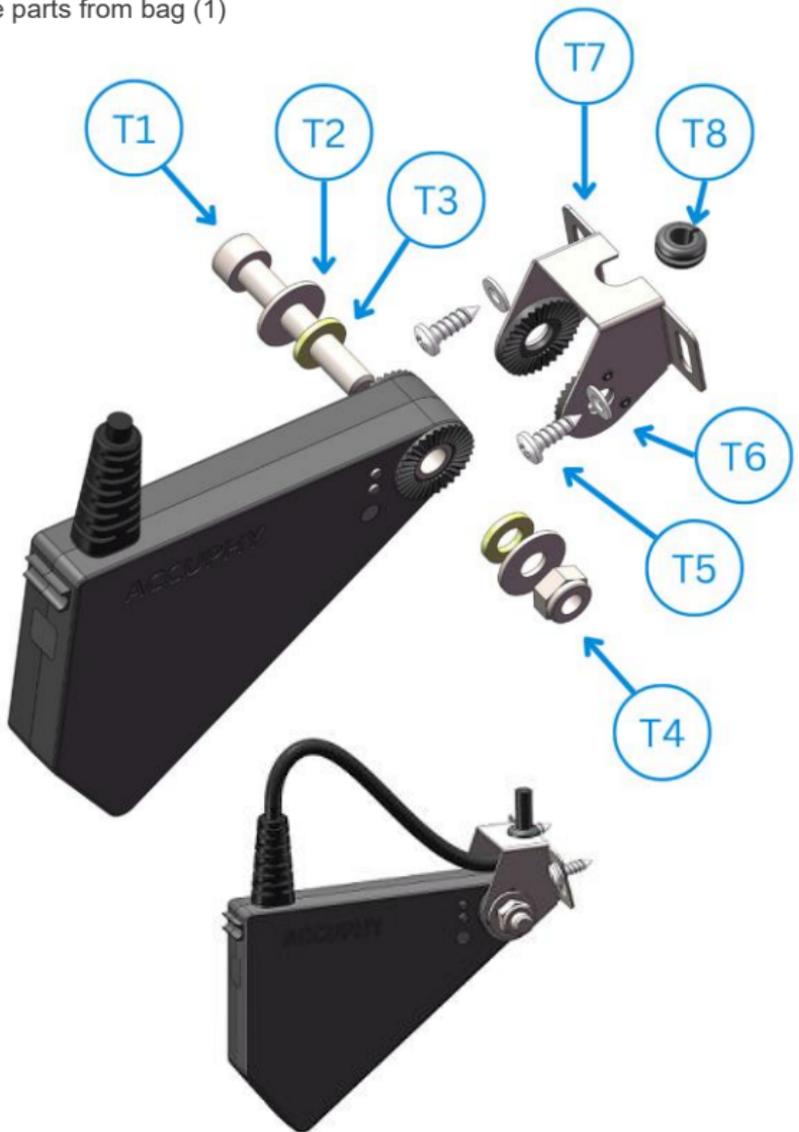


Shaft Mount Setup

1. Take out the bracket "D" (B1) and the bracket "AC" (B3).
2. If the shaft is 28.6 mm (1.125 in.) or smaller in diameter, place the TPE liner (B2) inside the shaft-mount brackets (B1, B3).
3. Align the bracket "AC" (B3), ensuring the letter 'A' and the arrow marking are pointing upward.
4. Insert the M6x25 Screws (B4) into the brackets and tighten them using Allen wrench.
5. Attach the Rubber Washer (B5) to the short knob (B6), and insert the short knob (B6) into the mounting holes on the transducer bracket and bracket "AC" (B3). Hand tighten the knob.
6. Secure the transducer cable along the shaft or another stable location.
7. Route the cable carefully to the Wi-Fi Router while avoiding:
 - a) Contact with the propeller when the motor is running.
 - b) Placement near electrical wiring or other interference sources.
 - c) Pinching when the motor is deployed or stowed

Transom Mount Instruction

Use parts from bag (1)



Transom Mount Setup

1. Choose a proper location for mounting the bracket, to ensure:
 - a) The transducer will fully submerge when boat planed.
 - b) The transducer is away from the propeller.
 - c) The transducer is free from trailer.
 - d) No obstacles in front of the transducer.
2. Attach the Silicon Grommet (T8) to the cable opening on the bracket to provide strain relief and prevent cable wear.
3. Attach the Transom Bracket (T7) to the chosen location on the transom, using the provided self-tapping screws (T5). Be sure to place the 5x12x1 washers (T6) before attaching the Bracket (T7).
4. Once attached, place the transducer in between the Transom Bracket.
5. Insert the M8x50 Screws (T1) through the Transom Bracket (T7), ensuring that the steel and PU washers (T2, T3) are placed on both sides between the components.
6. Secure the M8 Screws (T1) using the M8 Nut (T4). Tighten enough to allow the transducer to pivot when struck, protecting it from impact.
7. Route the transducer cable securely along the transom.
8. Avoid routing the cable near:
 - a) The boat's propeller or other moving parts
 - b) Electrical wiring that may cause interference.
 - c) Sharp edges that may pinch or damage the cable.

NOTICE

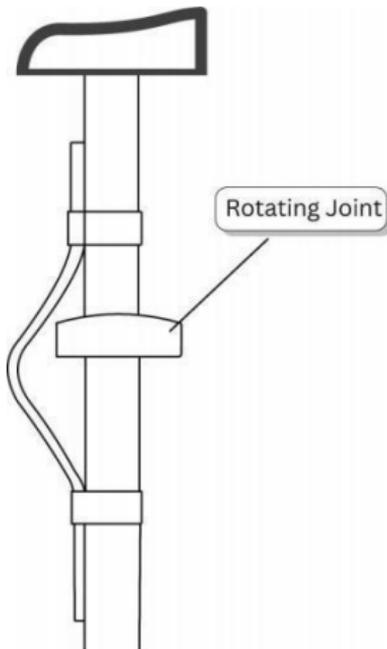
When installing this bracket, be sure to install screws on all two mounting holes. This is especially important on vessels that operate at high speeds. If screws are not installed in all of the mounting holes, the bracket may bend or break when the vessel moves at high speeds, dislodging the transducer.

IMPORTANT

If you are mounting the bracket on fiberglass with screws, it is recommended to use a countersink bit to drill a clearance counterbore through only the top gel-coat layer. This will help to avoid cracking in the gel-coat layer when the screws are tightened.

PART V General Guidelines

- Position the transducer to avoid propeller contact.
- Ensure cables are secured with electrical tape (avoid overtightening zip ties).
- Maintain a 25 cm (10 in.) service loop near rotating joints.



Transducer Cleaning

- Clean the transducer regularly with soft cloth and mild detergent.
- Ensure the transducer is securely mounted and properly angled before use.
- The Wi-Fi Router is waterproof but avoid submerging it in water.
- Do not apply excessive force when adjusting the mount.

Configuration

▪ Shaft Mount

For barrel and shaft mounts, each step of the mounting teeth adjusts by 22.5°. Both mounts have 16 teeth, allowing for precise positioning of the transducer.

If the transducer is mounted one step upward from the standard notch, the top edge of the sonar view tilts upward by 22.5°. In this case, the angle setting in the Accuphy Sonar app should be adjusted to -22.5°. Additionally, the depth value should be set according to the actual installation for accurate readings.

▪ Transom Mount

For Transom mount, each step of the mounting teeth adjusts by 11.25°. If the transducer is mounted one step upward from the standard notch, the top edge of the sonar view tilts upward by 11.25°. In this case, the angle setting in the Accuphy Sonar app should be adjusted to -11.25°. Additionally, the depth value should be set according to the actual installation for accurate readings.

Once adjusted, the displayed sonar image will accurately correspond to the real-world underwater environment.

Powering and Connecting the Wi-Fi Router

The Wi-Fi router operates within an input voltage range of 10-18V and requires a minimum 6A current capacity for stable performance.

Setup Instruction

Connecting via Wi-Fi Router (Wireless Connection)

Power the Wi-Fi Router – Connect it to a compatible battery within the voltage range.

1. Connect the Transducer – Ensure the transducer is securely plugged into the Wi-Fi router.
2. Connect to Wi-Fi – On your iOS or Android device, go to Wi-Fi settings and select:
 - Network (SSID): Accuphy_XXXX
 - Password: 12345678
3. Once connected, launch the Accuphy Sonar app to begin using your sonar system.

WiFi-Router Indicator Lights

Power Indicator Light (Router)

- Red Light: Turns on when powered

Router Network Status Indicator

- Green Light:
 - Turns on briefly after powering up, then turns off.
 - About 45-60 seconds after powering on, the light turns on again and starts blinking—this indicates that the SSID is now visible and ready for connection.
 - When connected and data is being transmitted, the light blinks.
 - When no data is being transmitted, the light turns off.

PART VII Troubleshooting

1. Ensure Wi-Fi Connection is good
 - a. Check if Wi-Fi is properly connected to the router and the signal quality is reasonably good.
2. Keep the App and Firmware Up to Date
 - a. Always ensure that both the Accuphy app and transducer firmware are updated to the latest version.
3. If issues persist, try uninstalling and reinstalling the app.
4. Verify Battery Capacity
 - a. The battery must provide a minimum output current of 6A to ensure proper operation.
5. Check All Connections
 - a. Inspect power cable connections, transducer cable connections, and battery status.
6. If Issues Persist After Steps 1-5:
 - a. Power Cycle: Turn off the system completely, then restart it.
 - b. Restart the App: Force close the Accuphy app and reopen it.

Still Experiencing Issues?

- Contact Accuphy customer support for further assistance.

PART VIII Specifications

ACCUPHY PINGLIVE MINI SONAR SPECIFICATIONS

GENERAL PARAMETERS

DIMENSION	12.5 X 10 X 2.3cm, or 5 X 3.9 X 0.9in
WEIGHT	0.6kg or 1lb 5 oz
TRANSDUCER BEAMWIDTH	39° (Live forward & Live down)
TRANSDUCER CABLE LENGTH	6m, or 20ft
TEMPERATURE RANGE	0°C to 40°C, or 32°F to 104°F

ELECTRICAL PARAMETERS

POWER INPUT	10-18 VDC
POWER USAGE	12W typical, 25W max

SONAR PARAMETERS

FREQUENCY	450 - 1,100 kHz
TRANSMIT POWER	500 W
MAXIMUM RANGE	70.0 m, or 230 feet (freshwater)

ACCUPHY WI-FI ROUTER ONE SPECIFICATIONS

GENERAL PARAMETERS

DIMENSION	8.8 x 5.7 x 3.2 cm
WEIGHT	0.12 Kg
TEMPERATURE RANGE	-20°C to 40°C
TRANSDUCER PORTS	1

ELECTRICAL PARAMETERS

POWER INPUT	10-18 VDC
POWER USAGE	2.5W typical, 5W max

WI-FI PARAMETERS

FREQUENCY	5.8GHz
WI-FI MODES	IEEE802.11N/AC