

# Utility Hookup Guides

Printable Utility Hookup guides

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# Printable Guides

# RD7200 Utility Hookup Quick Card

- **Water:**
  - Metallic: Direct connect to valve/hydrant
  - Plastic (PVC) w/ tracer wire: Red to tracer wire
  - Black to ground stake
  - No tracer wire: Use sonde
  - Freq: 8 kHz-33 kHz
- **Sewer:**
  - Non-metallic: Use sonde in cleanout/camera
  - Metallic (rare): Direct connect
  - Freq: 33 kHz or 512 Hz sonde
- **Electric:**
  - Clamp on insulated live cable
  - Alt: Direct connect to sheath/ground (if safe)
  - Check passive power first
  - Freq: 8-33 kHz
- **Gas:**
  - Plastic w/ tracer wire: Red to tracer wire
  - Steel main: Direct connect to valve/riser
  - Freq: 512 Hz-8 kHz
- **Fiber Optic:**
  - Armored: Clamp around sheath
  - With tracer wire: Direct connect
  - Freq: 512 Hz-8 kHz
- **Chilled Water:**
  - Usually metallic: Direct connect to valve/pipe Clamp if insulated
  - Freq: 8 Hz-8 k
- **Reclaimed Water:**
  - Plastic w/ tracer wire: Direct connect
  - No tracer wire: Induction
  - Freq: Start low, increase if needed
- **Best Practices:**
  - Direct connect if possible
  - Ground stake 10-20 ft away, perpendicular
  - Start low frequency
  - Confirm with multiple sweeps & modes

# Locator Reference Guide

## Checklist

### Utility Locating Quick Reference Guide

**1. Arrival & Safety**

- Check in & review site maps
- Wear PPE (vest, hard hat, gloves, boots, glasses)
- Walk job site & identify hazards
- Plan which utilities need locating






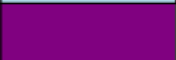
**2. Equipment Setup**

- Inspect & power on RD7200/RD8200
- Run self-test, check batteries
- Select correct mode: Active / Passive / Induction

**3. Hookup Steps**

- o Preferred order: Direct Connect → Clamp → Induction
- o Red lead → Utility (metal/tracer wire)
- o Black lead → Ground stake (away from other utilities)
- o Start with low frequency, increase only if needed

**4. Utility Locating Colors:**

Electric		Red
Gas		Yellow
Water		Blue
Sewer		Green
Fiber Optic/Telecom		Orange
Chilled Water		Light Blue
Reclaimed Water		Purple

**5. Locating & Marking**

1. Sweep in both directions
2. Verify signal strength
3. Mark path: Flags at turns/crossings, Paint dashes + arrows

#### 4. Depth check at critical points

#### 6. Packing Up

- Disconnect transmitter & ground
- Clean & inspect equipment
- Collect flags/cones/safety gear
- Record locate (photos/Notes/Comment to Call Center)
- Report job complete

#### • Best Practices

- Always confirm with 2+ modes when possible
- Avoid hooking near transformers/multiple parallel lines
- Double-check crossings
- Keep marks consistent & visible