

## Remote Antenna

Part Number 100 - 101029



### Features:

- Ability to place in remote locations to improve line-of-sight and signal strength
- Durable 3dB gain antenna
- O-ring provides sealed connection

### Compatibility:

- Attaches to any Electrochem base station model

### Device Description

The remote antenna is to be paired with one of Electrochem's base stations and is designed to allow positioning of the base station's antenna in an improved location for communication with the wireless sensors. This remote antenna replaces the base station's standard whip antenna which is mounted directly to it. The 3dB gain *Antenex Phantom* antenna is the same antenna found on the wireless sensor products and is more durable and robust than the base station's current whip antenna. The remote antenna assembly includes a mount and O-ring that provides a sealed connection when mounted on flat, smooth surfaces.

### Improved Signal Strength

A 20' cable which mounts directly to the base station, allowing for positioning of the antenna high above obstructions that may be in direct line-of-sight with the wireless sensor antenna. For example, this remote antenna can be mounted atop a roof which alleviates any reduction of the signal from transmission through solid walls.

### Installation

The first step is to unthread the whip antenna from the base station. Second, fasten one end of the antenna cable to this same location on the base station. Third, while observing Figure 1 on page 2 of this datasheet, assemble the antenna mount unit. The panel can be up to 11/16" thick. Next, thread the opposite end of the antenna cable to the bottom of the antenna mount. Lastly, thread the remote antenna to the top of the antenna mount.

### Device Implementation

The antenna mount assembly is now ready for communication with the wireless sensor network. The base station will function in the same way that it previously performed. Proper location of the antenna is essential and will increase signal strength while avoiding interference. The base station can now be placed inside an enclosure and attached to a computer or PLC where the operator resides. And, the antenna can be mounted atop the roof of that enclosure, increasing line-of-sight for efficient data transmission.

## Purchasing Information

Remote Antenna Assembly ..... 100-101029

### Parts:

RP-SMA Plug to N-Male 20' Cable ..... 100-101027

Viton O-ring ..... Call

### Accessories:

Base Station One USB (BS1-U) ..... 100-100467FG

Base Station One RS-232 (BS1-R) ..... 100-100468FG

Base Station One NG (BS1-NG) ..... 100-100961

Antenex is a unit of Laird Technologies.

For complete product specifications, pricing and accessory information:  
Call (716) 759-5800 or visit [www.ElectrochemSolutions.com](http://www.ElectrochemSolutions.com)

## SPECIFICATIONS:

### MECHANICAL

Antenna Mount

Connections ..... NMO to N-Female  
bulkhead

Antenna Cable

Length ..... 20 feet

Connections ..... RP-SMA Plug to  
N-Male

### ENVIRONMENTAL

Operating temperature ..... -40°C to 85°C

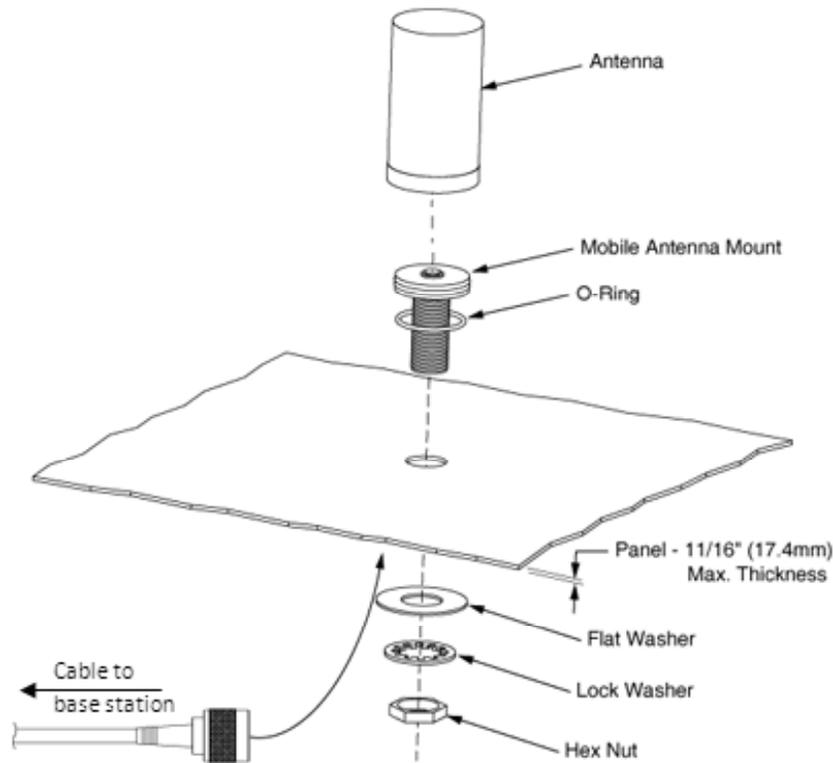


Figure 1: Remote Antenna Assembly