



# Allegro AC-Powered Repeater Installation Guide

ALLEGRO AMI INFRASTRUCTURE FOR WATER

REV. #IG070920A



# ALLEGRO AC-POWERED REPEATER INSTALLATION GUIDE

## COMPLIANCE WITH FCC REGULATIONS



### CAUTION

The user and installer should be aware that changes and modifications to the equipment not expressly approved by Master Meter could void warranty and the user's authority to operate the equipment. Professionally trained personnel should install the equipment.

The digital portion of the of the transceiver has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur within a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

The following are the main features of the Allegro Pit endpoint:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

The device complies with part 15 of FCC Rules. Operation is subject to the following two conditions:



### ATTENTION

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.



# ALLEGRO AC-POWERED REPEATER INSTALLATION GUIDE

## INTRODUCTION

The Allegro AC-Powered Repeater ("2WREP") is a plug-and-play multi-channel/frequency RF transceiver unit operates at 450 – 470MHz ISM band. It is designated to transceiver and collect wireless transmissions of water meters.

The Allegro AC Repeater sends the collected data through internal/external antenna.

## ABOUT THE ALLEGRO AC-POWERED REPEATER

Environmental Conditions

1. Operating Temperature: -40°F to +158°F
2. Storage Temperature: -40°F to +158°F
3. Humidity: Up to 95%

Allegro AC-Powered Repeater (*external photo*)



Figure 1: Allegro AC-Powered Repeater (*external photo*)



Figure 2: Allegro AC-Powered Repeater (*internal photo*)



Figure 3: FCC Label



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## INSTALLATION

The Allegro AC-Powered Repeater can be installed on both walls as well as light poles. Attach the relevant hanging kit (see figures 4 through 6).

### Light Pole Hanging Kit

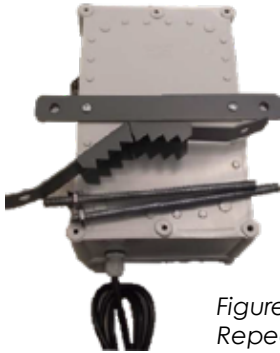


Figure 4: Allegro AC-Powered Repeater shown with mounting bracket

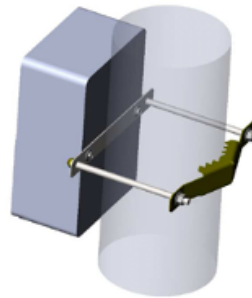


Figure 5: Allegro AC-Powered Repeater illustration shown with mounting bracket attached to pole.

### Wall Hanging Kit



Figure 6: Allegro AC-Powered Repeater shown with wall mounting fixtures



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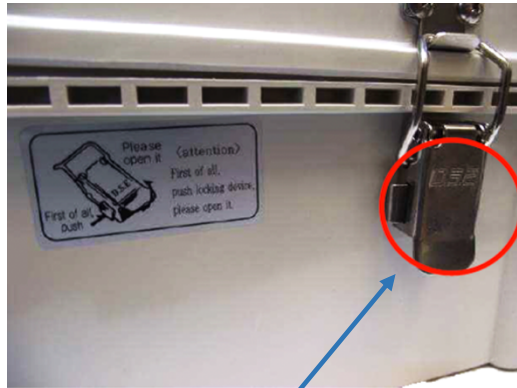


ATTENTION

**DO NOT** open the Allegro AC-Powered Repeater with strength. Push the locking tabs and pull the hinges.

**Step 1.** Open the Allegro AC Repeater box by pushing the locking tab and ensure the antenna is connected properly.

Figure 7



This should solidly snap down when in place correctly.

**Step 2.** Connect the Allegro AC Repeater to power source (110VAC) and flip the transceiver switch to "ON."

A green light with orange blinking LED's indicates the Allegro AC Repeater is working. Close the AC Repeater box. The Allegro AC-Powered Repeater is now ready to collect water meter data.

Figure 8



Hole to place a device to help you open it.