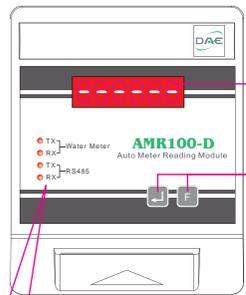




AMR100-D

Installation Guide

1 Front Panel

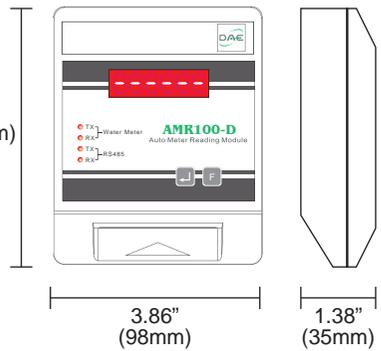


LED Display

Function Keys

- TX - Water Meter
 - RX - RS485
 - TX - RS485
 - RX - RS485
- Water Meter Data Activity Indicators
- Remote Host Communication Activity Indicators

2 Dimensions

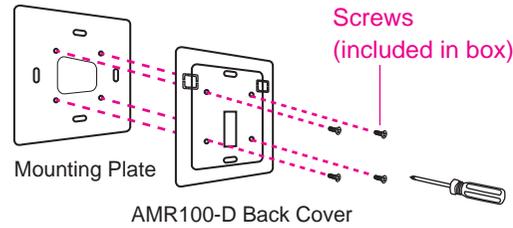


Weight: 140g

3 Installation

Mounting the Plate:

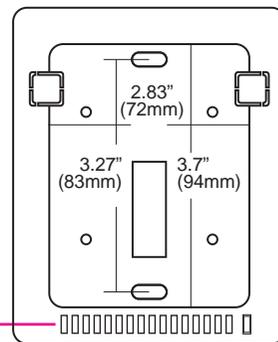
- Screw the AMR back cover to the mounting bracket



Screws (included in box)

※Note: When used with the mounting plate, it must first be secured to the wall.

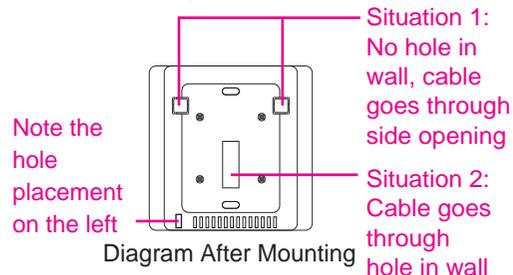
※Note: The back cover can be mounted directly onto the wall without the mounting plate depending on the situation.



Ventilation Holes

Back Cover (rear view)

Wire Opening

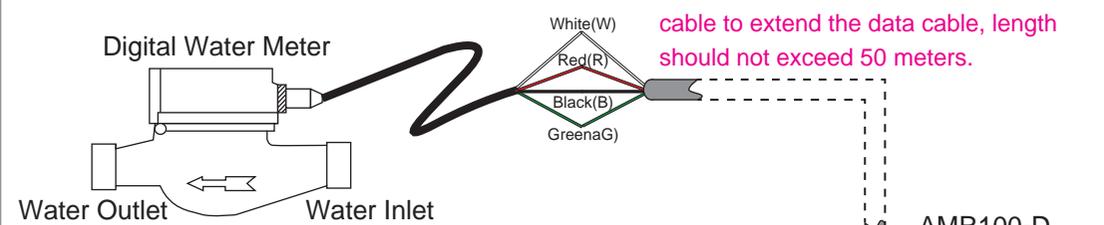


Note the hole placement on the left

Situation 1: No hole in wall, cable goes through side opening

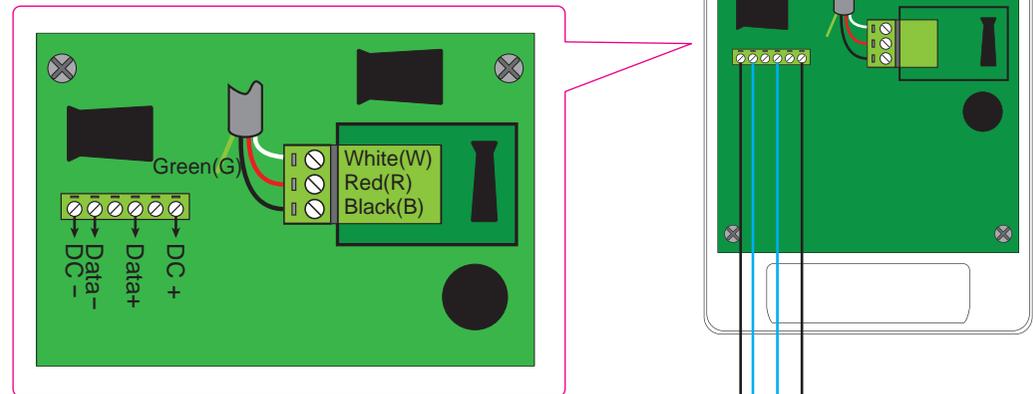
Situation 2: Cable goes through hole in wall

Wiring to Meter

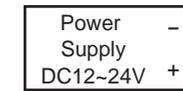


**Note: Use 22~24AWG UL2464 shielded twisted cable to extend the data cable, length should not exceed 50 meters.

Terminals

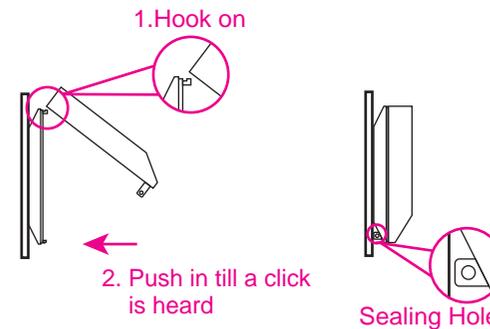


**Note: The green wire has no connection



RS485-
RS485+

Sealing the AMR module

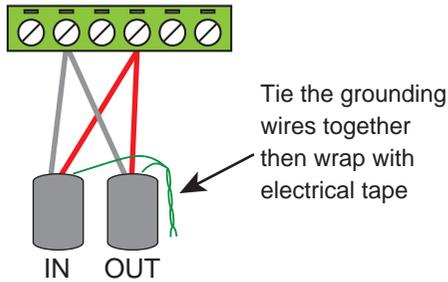


Sealing Hole

4 RS485 Cable Detail

1. UL2464 shielded twisted pair cable recommended.
2. Make sure the wires are screwed tightly to the correct terminals.
3. Make sure the polarities are correct.

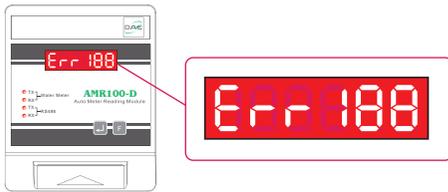
RS485 Cable Detailed Diagram



Shielded twisted pair cables

5 Miscellaneous

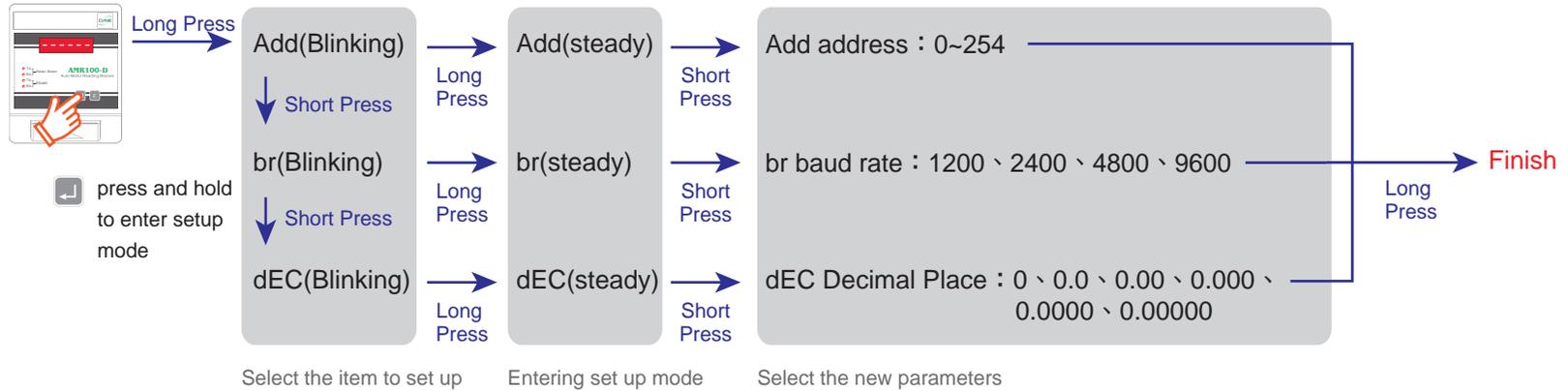
1. The AMR100-D will read data from the digital water meter every 10 seconds, if it fails, an error message is displayed, check that the data cable is connected properly.



2. Since the LED display can only show 6 digits at a time, when the value exceeds what the display can show, it will scroll the value to the left.

6 Configuration

Once installed, the AMR100-D may be configured according to user requirements, the setup process is shown in the diagram below.



7 Checklist

⦿ Before Powering Up

- 1. Check to make sure that the water meter data cable is connected properly according to their color coded positions.
- 2. Check to make sure that the power supply is connected properly.
- 3. Check that the RS485 cable is connected properly.

⦿ After Powering Up

- 1. The LED display should be displaying the water meter reading.
- 2. The water meter data indicators should be blinking every 10 seconds
- 3. Enter setup mode to configure the desired parameters

8 Warnings & Precautions

⚠ Danger

To prevent the risk of electric shock, turn off all sources of electrical power to the device during installation or wiring.

⚠ Warnings

- Install only by a qualified and trained personnel.
- Follow these instructions accordingly, otherwise damage may occur to the device.
- Follow electrical rules and regulations in the selection of wire materials and gauges.
- Avoid having oil, water, metallic powder or other foreign substances enter the device.
- Avoid using the device in environments where it will be exposed to steam, corrosive, or flammable substances; which can cause short circuits, fires, or explosions.

