



Smart for Greenlife!

### Overview

- The AMR100 is a combined display and communication module. Its LED display allows it to be installed in any desirable location for convenient reading of the water consumption. Its communication capability allows it to be connected to a remote host for automated meter reading.
- The AMR100 has one channel to connect to the pulse output of a water meter, it accumulates the pulses then scales it before displaying it. With the optional backup battery, the pulses can be accumulated without interruption.

### Features

- Provides for the accumulation of water meter pulses
- Connects to the water meter via a 18~24 AWG signal cable (UL2464) for up to 100 meters
- Optically isolated input
- Pulse input noise filtering
- Modbus/RTU protocol over RS485 interface for communication with a remote host
- LED display unit for showing accumulated water meter reading
- Wall mounted
- The LED display together with the function key can be used to set the RS485 device address
- Non-volatile memory for storing the accumulated pulses and user defined settings; data will not be lost due to a power interruption
- Provides scaling factors for converting the pulse count to a meaningful water meter reading value
- Remote host can synchronize with the displayed value through Modbus

### Specifications

- Channel: One dry contact pulse input
- Communication: RS485 interface, Modbus/RTU protocol, data format: 8/n/1
- Maximum AMR100 to water meter distance: 328 feet (100 meters) (UL2464 shielded twisted pair)
- Displayed Value: water meter reading
- Display: 6 digit LED display unit
- Setup: One function key
- Device Address: 0 to 99
- Pulse Divider: 1, 4, 8, 10, 16, 32, 64, 100, 160, 320, 640, 1000, 2000, 10,000 or 20,000
- Decimal Places: 0, 0.0 or 0.00
- Displayable Digits: 6, 7, 8, 9
- Non-volatile memory for storage of user defined settings and cumulative water meter reading
- Baud Rate: 1200, 2400, 4800 or 9600 bps
- Protection: Optically isolated communication port
- Cable Type for Extension: Use 18 to 24AWG, UL2464 shielded twisted pair
- Power Supply: DC15V
- Operating Temperature: 0 to 60°C (32 to 140°F)
- Operating Humidity: 0 to 90%RH (non-condensing)
- Mounting: Wall mounted
- Backup Operation: Recharging circuit for external rechargeable battery (option)

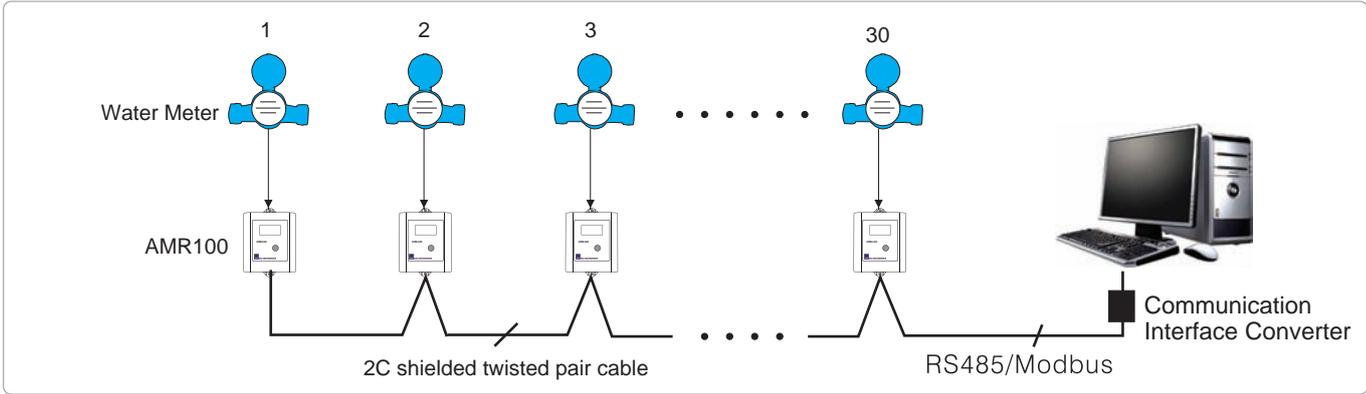
Rechargeable Battery (option)

12VDC, 600mAh

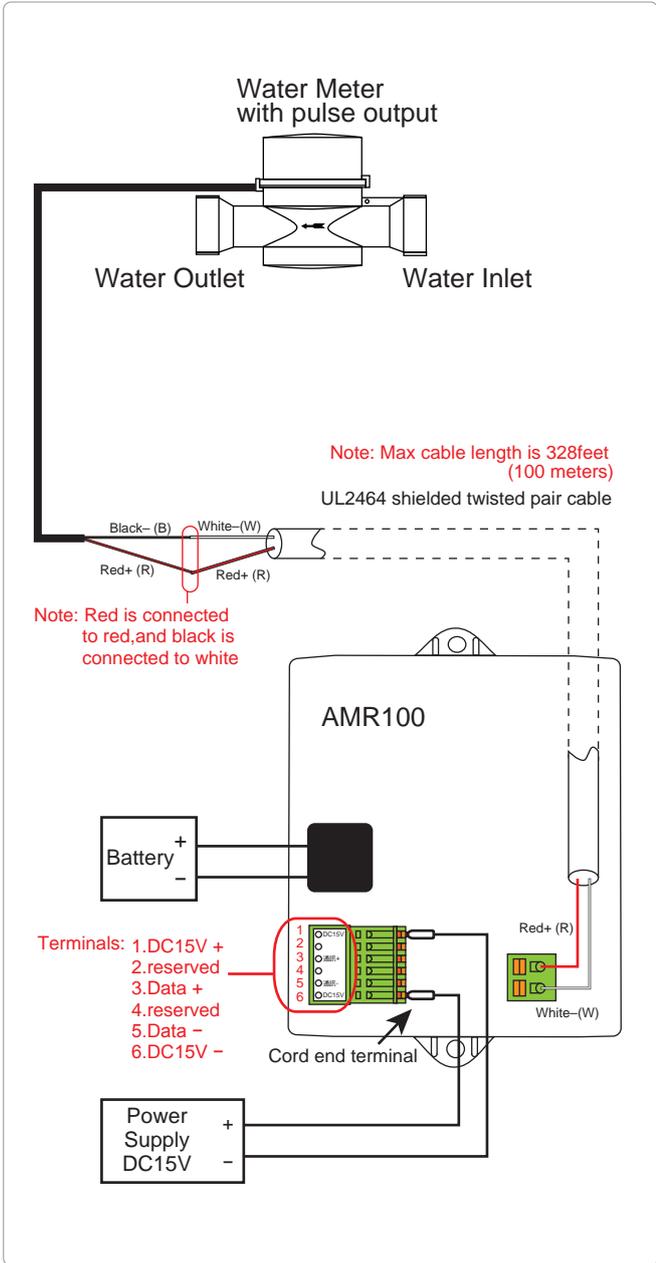
Can be used for up to 8 hours when fully charged



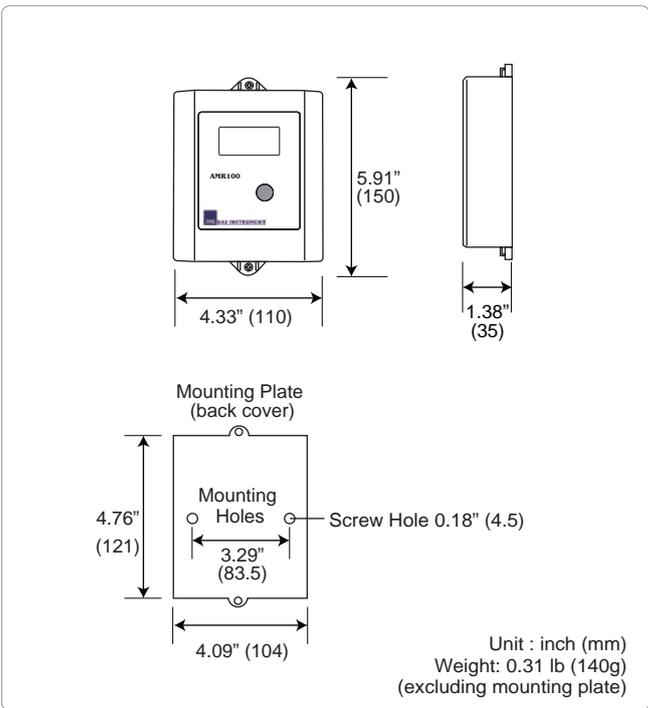
System Diagram



Wiring Diagram



Dimensions



Ordering

Order Code	Description
AMR100-R	Display and communication module for pulse output water meter
AMR100-RC	Display and communication module for pulse output water meter with battery charging circuit
BAT-6	Rechargeable battery

\*Due to continuous improvements and innovations, product specifications subject to change without notice.