DAE

AMR130
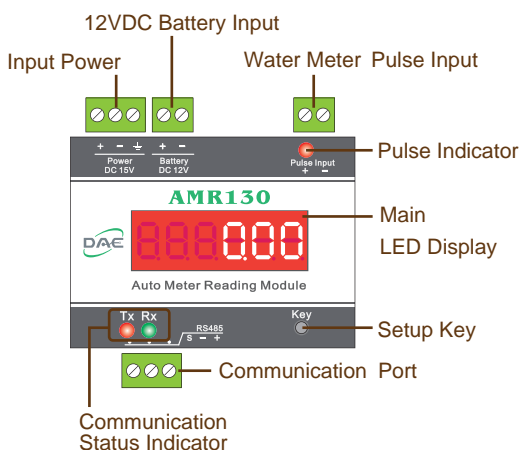
Installation Guide

1 Warnings & Precautions

⚠ Danger

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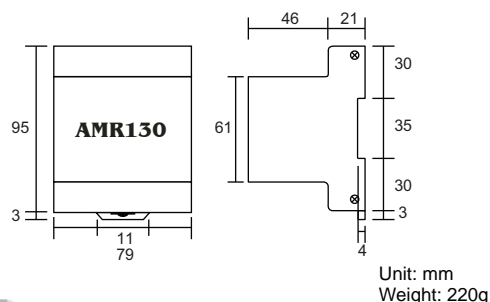
⚠ Warnings

- 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.
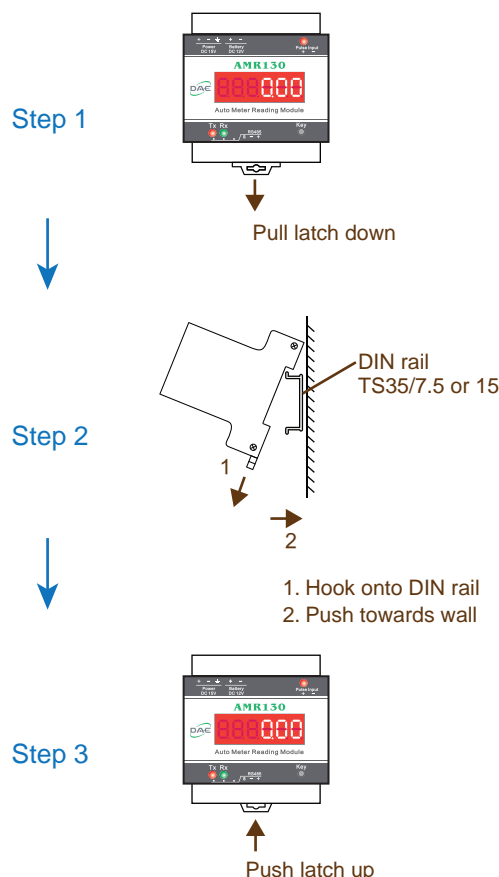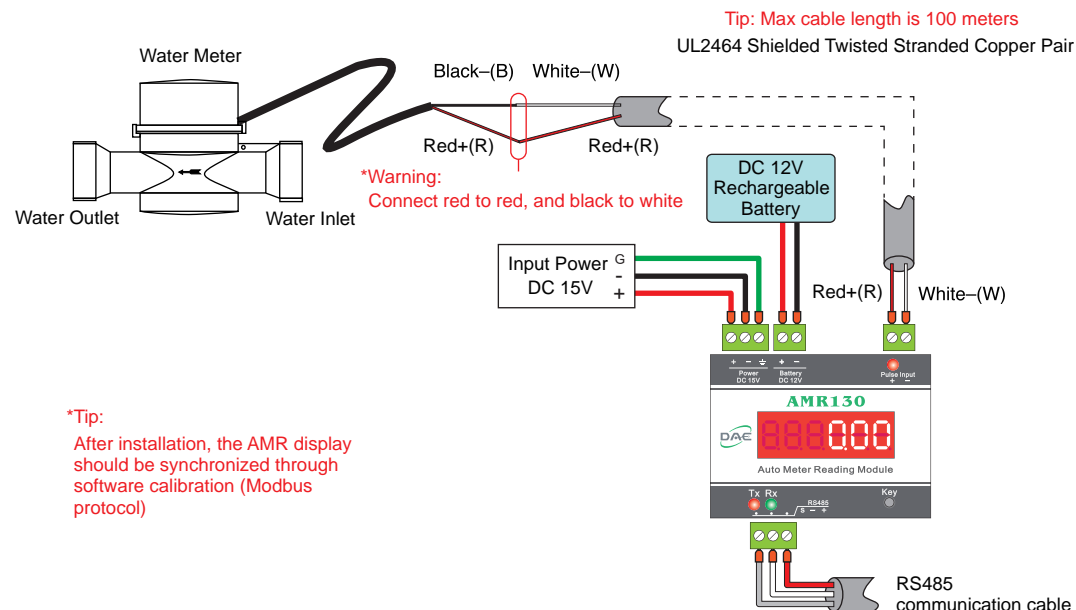
2 Front Panel & Terminals

12VDC Battery Input
Input Power
Water Meter Pulse Input
Pulse Indicator
Main LED Display
Setup Key
Communication Port
Communication Status Indicator

3 Dimensions

46   21
95   61   30   35   30   3
3   11   79   4

Unit: mm
Weight: 220g

4 Mounting

Step 1

Pull latch down

Step 2

DIN rail TS35/7.5 or 15

1
2

1. Hook onto DIN rail
2. Push towards wall

Step 3

Push latch up

5 Wiring Diagram

Tip: Max cable length is 100 meters
UL2464 Shielded Twisted Stranded Copper Pair

Water Meter
Black–(B)   White–(W)
Red+(R)   Red+(R)
Water Outlet   Water Inlet

*Warning:
Connect red to red, and black to white

DC 12V Rechargeable Battery

Input Power DC 15V   G – +
Red+(R)   White–(W)

*Tip:
After installation, the AMR display should be synchronized through software calibration (Modbus protocol)

RS485 communication cable
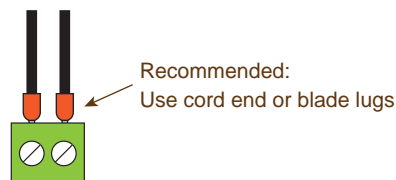
6 Wiring Detail

1. Please follow electrical regulations and recommendations in selecting the wire size and type.
2. Ensure that the wires are making good contact with the terminals and have been screwed securely.
3. Terminals can accept wires with size of no more than 2.0mm^2.

Recommended:
Use cord end or blade lugs

7 RS485 Cable Detail

1. Use UL2464 shielded twisted stranded copper pair, 24 to 22 AWG recommended.
2. Terminate wire ends with cord end or blade lugs.
3. Ensure that the wires are screwed tightly to their corresponding terminals.
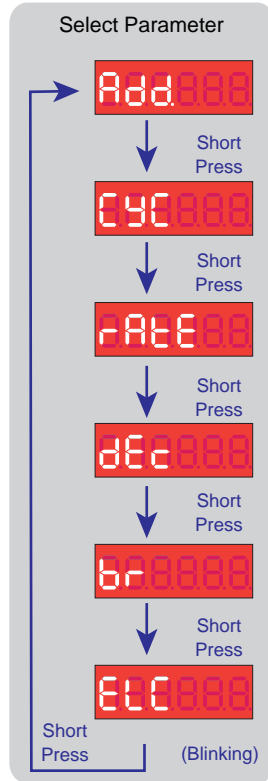4. Ensure that the positive and negative polarities are correct.

RS485 Cable Detail:

RS485
S – +

Recommended:
Use cord end or blade lugs

Stranded copper wire

IN   OUT

UL2464 shielded twisted stranded copper pair cable
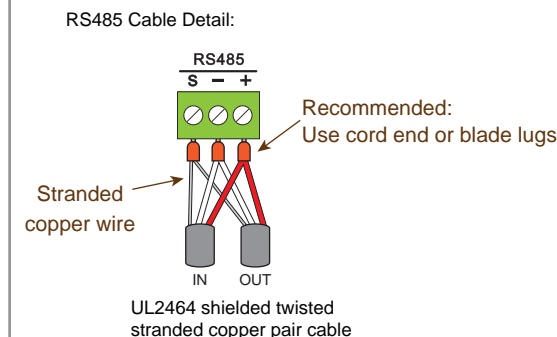
Press and hold setup key for 3 seconds to enter setup mode

Typical Setup Values:

1 gallon per pulse

	Settings
rAtE (scaling factor)	1
dEC (decimal point)	0

Long Press →

Select Parameter

Add.888

Short Press ↓

CYC.888

Short Press ↓

rAtE.88

Short Press ↓

dEc.888

Short Press ↓

br.8888

Short Press ↓

ELC.888

Short Press

(Blinking)

Long Press →

Modify Parameter

Add.88.0

Long Press → CYC.88.n

Long Press → 888881

Long Press → 888880

Long Press → br.88.24

Long Press → ELC.88.n

(Steady)

Short Press →

Parameter

Add (address) : 0 ~ 254

Short Press → CyC (cycle display) : y (yes), n (no)

Short Press →
rAtE (scaling factor) : 1, 4, 8, 10, 16, 32, 64, 100, 160, 320, 640, 1000, 2000, 10000, 20000

Short Press → dEC (decimal point) : 0, 0.0, 0.00

Short Press → bPS (baud rate) : 1200, 2400, 4800, 9600

Short Press → ELC (pulse input) : n (water), y (electricity)

Long Press
Finish

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