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FC-721 IoT Optical Meter Reading Device



Product Features

Automated Meter Reading: Captures images of the gas meter dial using an integrated IoT camera and uploads them to the back-end server via wireless communication technologies (such as CAT-1) for automatic identification and data processing.

Explosion-Proof Certification: Fully compliant with China's national explosion-proof standards, bearing the official explosion-proof mark and certification. It is engineered specifically for safe deployment in hazardous locations containing explosive gases.

How to use

1. Installation

- **Location Requirements:** Mount the device securely onto the gas meter in a position that provides a clear, unobstructed view of the dial. Ensure the location is well-ventilated, sheltered from direct rain and sunlight, and kept safely away from ignition sources and flammable or explosive materials.
- **Pre-Installation Check:** Inspect the device thoroughly for any signs of damage prior to installation.

2. Power-On

- Insert the battery to power on the device.
- The red power indicator will light up.
- After approximately 10 seconds, the fill-in light will activate to capture the initial dial image.

3. Data Transmission

- The green communication indicator will then illuminate, and begin flashing after roughly 10 seconds while the device transmits the captured image to the server.
- All indicator lights will automatically turn off once the transmission is successfully completed.

4. Data Access

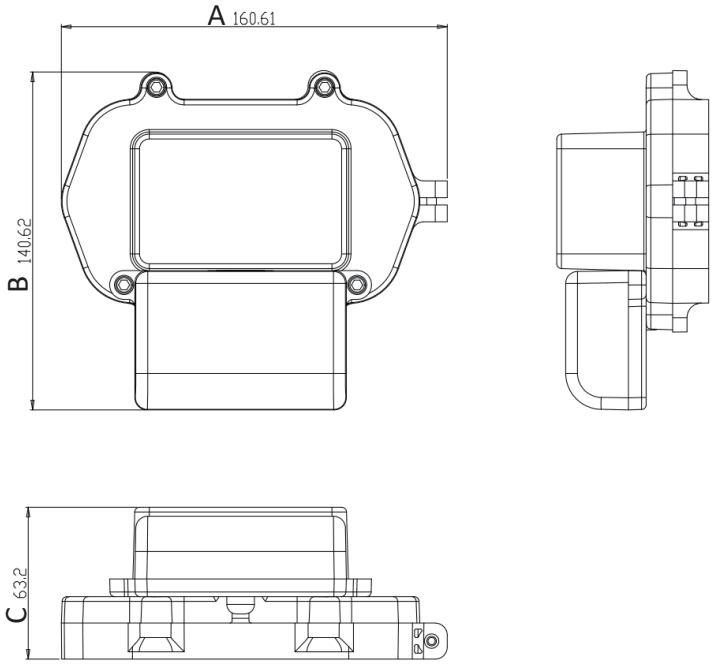
Once the server receives, identifies, and processes the image, the updated meter readings can be conveniently accessed via a PC client or mobile application (APP).

Specificaiton table

Item	Details
Power Supply Mode	ER26500; DC 3.6 V
Battery Service Life	>6 years
Standby Current	<1uA
Ambient Temperature	-30℃~70℃
Image Format	JPG
Transmit Power	23dBm±2.7dB
Wireless Communication Mode	CAT1

Physical Dimensions

Dimensions(mm)		
A	B	C
160.61	140.62	63.2



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