

CA568-R22

Ultrasonic Type Smart Prepaid Water Meter

CA568-R22 is an STS pre-paid ultrasonic water meter renowned for its high accuracy, reaching up to R250. It serves excellently for revenue protection and user management. Equipped with a Customer Interface Unit (CIU), it facilitates inputting recharge tokens and information codes. Its communication method is LORA/LoraWAN, with tariff charging and AMR data transmission as its primary features.



Main Features

- High accuracy up to R250
- Minimal pressure loss
- IP68 water-tight rating
- Mechanical movement-free design for longevity
- Up to 10 years of battery life
- Reading via RF-LORA and GPRS/3G system
- Brass/plastic meter body optional



Metrological Parameters

Nominal Size	mm	15	20	25
Minimum(Q1)	m ³ /h	0.010	0.016	0.025
Transitional(Q2)	m ³ /h	0.016	0.256	0.04
Permanent(Q3)	m ³ /h	2.5	4.0	6.3
Overload(Q4)	m ³ /h	3.125	5.0	7.875
Range ratio=Q3/Q1		250	250	250
Maximum Operation Pressure	1.6Mpa			
Maximum Pressure Loss	ΔP<63Kpa			
Maximum Working Temperature	55°C			
Maximum Permissible Error(MPE)	Q1≤Q≤Q2: MPE = ±5% Q2≤Q≤Q4: MPE = ±2%			

Electrical parameters

Battery Type	2 * ER26500	Communication Type	Lora, LoraWAN
Battery Voltage	DC 3.6V	Electromagnetic environment	E1
Battery Capacity	19000 mAh	Static operating current	≤20uA
Accuracy Class	Class C	Relative humidity	93%

Dimensions

Size (DN)	15	20	25
Length (L)	110mm	130mm	225mm
Width (W)	101mm	101mm	101mm
Height (H)	92mm	92mm	92mm

AMI/AMR Solution

It's an advanced AMI system leveraging LoRaWAN for remote meter reading. It supports bi-directional communication, daily data reporting, remote recharge, and control functionalities. The process involves the gateway connecting with nearby water meters via LoRaWAN, then uploading data to the backend via 4G or Ethernet.

