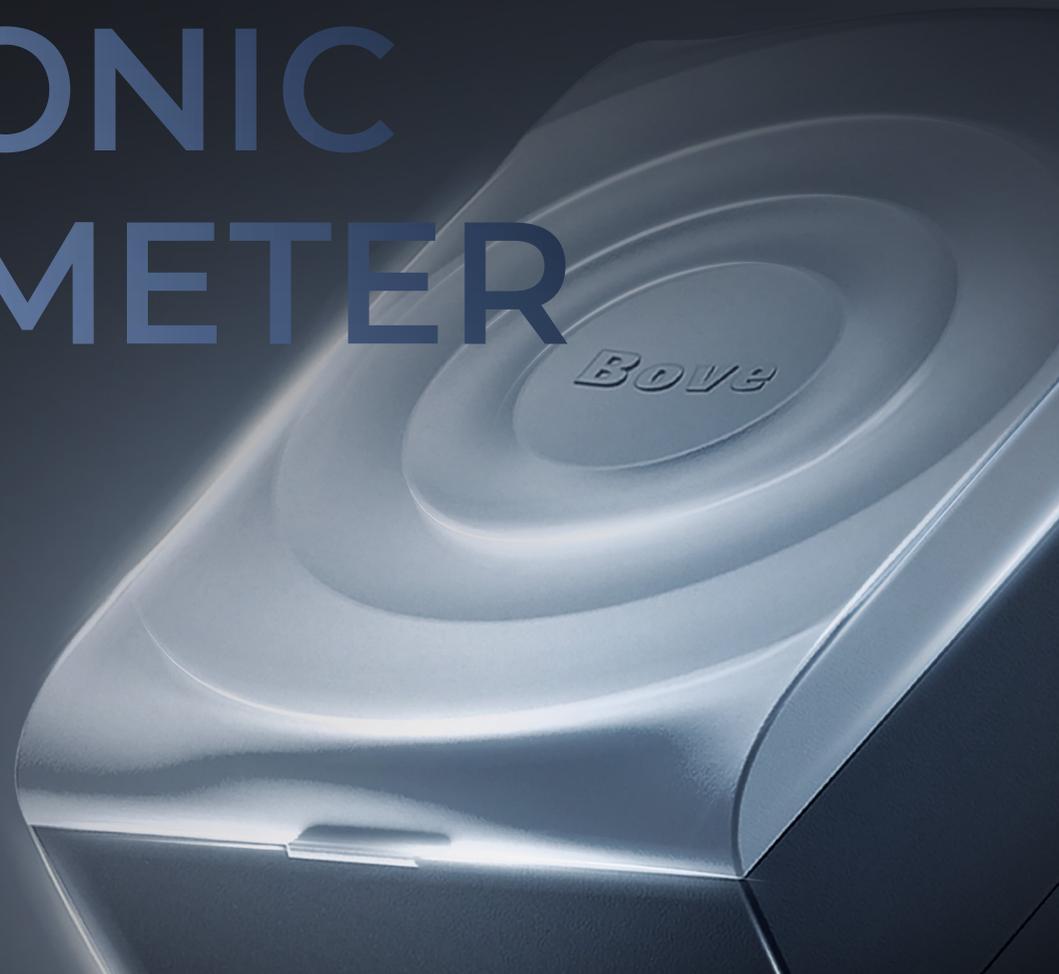# ULTRASONIC WATER METER

BECO X

BECO X

This model features a premium brass body pipe, integrating advanced ultrasonic technology and an infrared fingertip touch function. Renowned for its durability and precision, it has earned an exceptional reputation among customers, offering unparalleled reliability and innovation for modern water management solutions.

External antenna is optional

Engineered for exceptional durability, withstands impacts and even being run over by vehicles, ensuring superior signal transmission when the meter is installed beneath concrete, within metal enclosures, or in hard-to-reach corners with signal obstructions.

Reinforced Protection

Engineered with no internal moving parts and rated IP68, boasts a robust design that ensures maintenance-free performance even in the harshest environments—withstanding high humidity, UV exposure, and complete submersion during rainy seasons.

Heat / Cold Resistance

IP68

UV Resistance

High Durability

Smart Alarms

A range of intelligent alarms, including leakage, pipe bursts, reverse flow, empty pipe detection, battery status, etc. Can be transmitted to enable smarter, more efficient water management.

IoT Ready

The BECO X supports versatile communication interfaces, both wired and wireless, ensuring seamless adaptability to different installation environment—such as M-Bus, RS485, Pulse, LoRaWAN, Sigfox, NB-IoT, GPRS, 4G, wMbus, LoRaWAN+wMbus, etc.

LoRaWAN®	NB-IoT	PULSE	M-Bus
sigfox	4G LTE	M-Bus wireless	RS485

INFRARED PORT

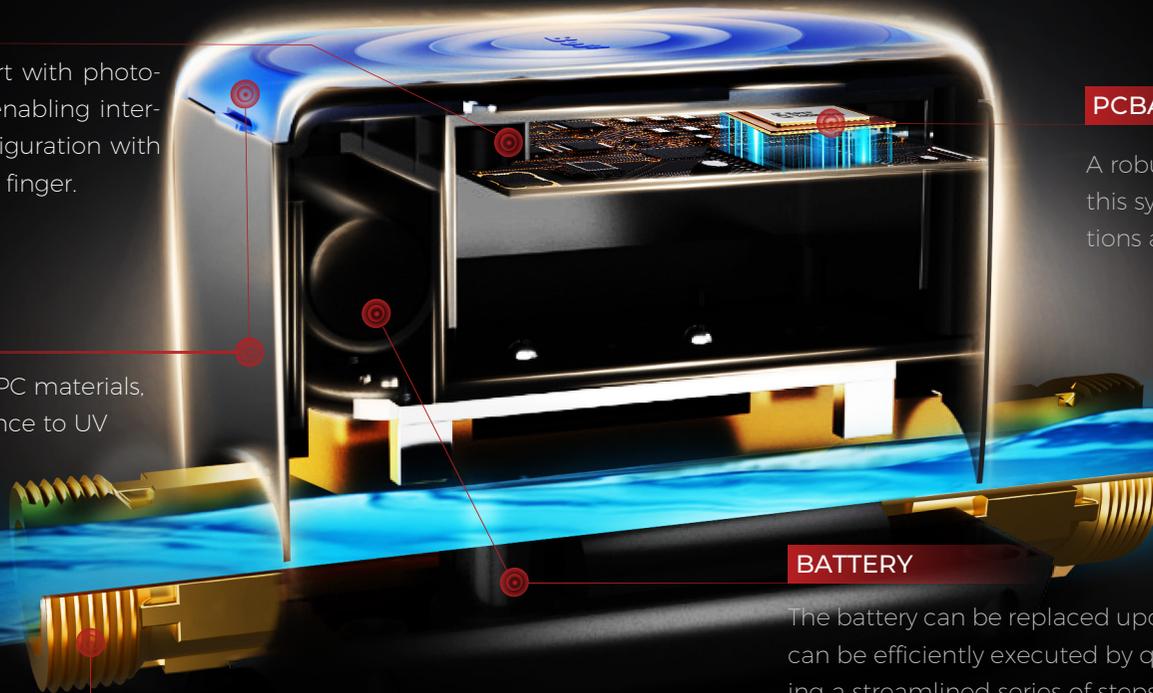Advanced infrared port with photo-sensitive technology, enabling interface viewing and configuration with a simple touch of your finger.

PCBA

A robust computational framework, this system supports precise operations and versatile functionalities.

BODY

High-durability ABS + PC materials, offers excellent resistance to UV exposure.

BATTERY

The battery can be replaced upon depletion. This process can be efficiently executed by qualified engineers following a streamlined series of steps.
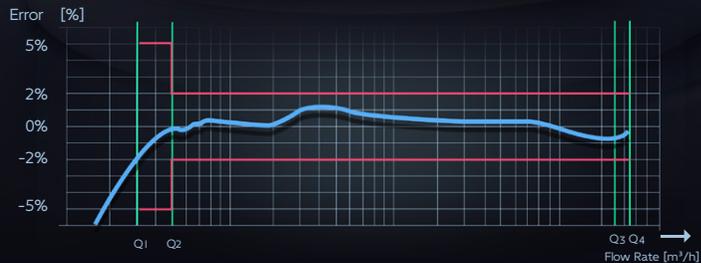
PIPE

Brass or stainless steel material.

SECTIONAL VIEW

TECHNICAL SPECIFICATION

Model	BECO X - 15	BECO X - 20	BECO X - 25	BECO X - 32	BECO X - 40
Pipe Diameter	DN15	DN20	DN25	DN32	DN40
Q_1 (m³/h)@R500	0.005	0.008	0.0126	0.02	0.032
Q_2 (m³/h)	0.08	0.0128	0.02016	0.032	0.0512
Q_3 (m³/h)	2.5	4.0	6.3	10	16
Connection	G¾″	G1″	G1¼″	G1½″	G2″
Length (mm)	165	195	225	180	200
Width (mm)	81	81	81	81	81
Height (mm)	100	100	118	128	135
Temperature	● Medium Range: 0.1℃......50/ 70℃ (T50 /T70) ● Ambient temperature: 5~55 ℃ ● Storage temperature: -20~60 ℃				
Materials	Brass 59-1/ Stainless Steel				
Metrological Class	Class 2 R250/ R400/ R500				
Maximum Operation Pressure	1.6 MPa				
Pressure Loss	△P≤63kPa				
Protection Class	IP68				
Battery	10- 16 years service life				
Data Storage	24/ 120 logs, daily/ weekly/ monthly.				
Environmental Requirement	E1, M1, B				
Interface & Communication	● M-Bus ● Pulse ● RS485 ● LoRaWAN ● Sigfox ● NB-IoT ● 4G ● GPRS ● wMbus ● LoRaWAN+wMbus				
Installation	U0D0				
Display and Indication	● Unit: L/ m³/ Gal (Optional) ● LCD: 8 digits				
Standard Compliance	● EN14154 ● ISO4064 ● OIML R49				
Certification	● MID ● NSF ● UV ● ROHS				

Error [%]

5%

2%

0%

-2%

-5%

Q_1 Q_2

Q_3 Q_4

Flow Rate [m³/h]

Creating an Eco Society

Add: Building 23, No. 36, Changsheng South Road, Jiaxing, Zhejiang, China, 314000

www.bovetech.com   +86(0)573 83525916   bove@bovetech.com