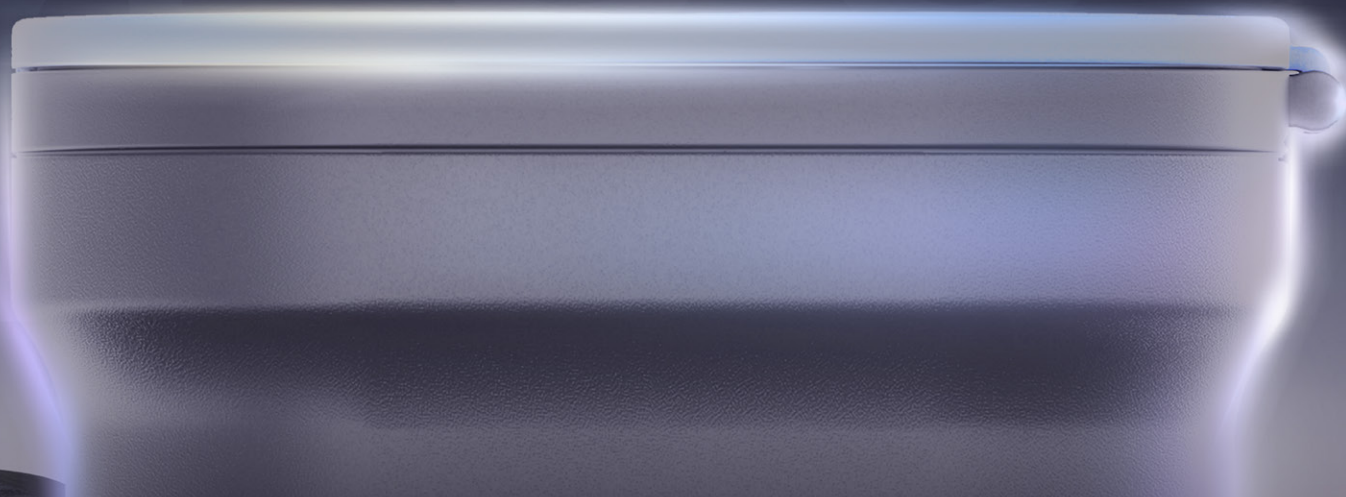


ULTRASONIC WATER METER

BECO Y



BECO Y



An eco-friendly residential water meter crafted from sustainable composite materials. Utilizing cutting-edge ultrasonic measurement technology, it ensures exceptional accuracy to combat non-revenue water (NRW). With integrated IoT capabilities for wireless data transmission, the BECO Y offers an innovative and efficient solution for smart water management.



High Accuracy

The BECO Y is engineered for precision with its innovative design featuring no internal moving parts. It boasts a dynamic range up to R800 and can accurately measure flow rates as low as 2 L/s. This ensures consistent and precise metering, even at extremely low flow rates.

IoT Ready

BECO Y offers versatile connectivity with a range of both wired and wireless communication interfaces, including LoRaWAN, NB-IoT, Sigfox, 4G, wM-Bus, Pulse, LoRaWAN+wMbus, etc.

LoRaWAN™

NB-IoT™

sigfox

4G LTE

LoRaWAN™ + wM-Bus™
wireless



Long Lifespan

BECO Y features a robust battery with low power consumption, delivering an impressive lifespan of 10 to 16 years with reliable functionality. Its longevity varies based on IoT configuration and transmission frequency.

Durable Material

Crafted from robust PPS+GF material, BECO Y is built to withstand impacts, damage, and falls. Its exceptional durability ensures reliable performance across varying temperatures, humidity levels, and UV exposure.



Heat / Cold
Resistance



IP68



UV
Resistance



High
Durability

HOT



COLD

Hot & Cold Water Measurement

Both hot water (T70) and cold water (T50) versions are available for different installation scenarios.

COVER

ASA material for UV protection.

LCD

Comprehensive LCD functionality with protector.

UPPER SHELL

PPS+GF material sealed with meter body by ultrasonic welding with IP68.

PCBA

State-of-the-art technology designed for unparalleled precision — capturing and measuring every single drop of water with exceptional accuracy.

STRAINER

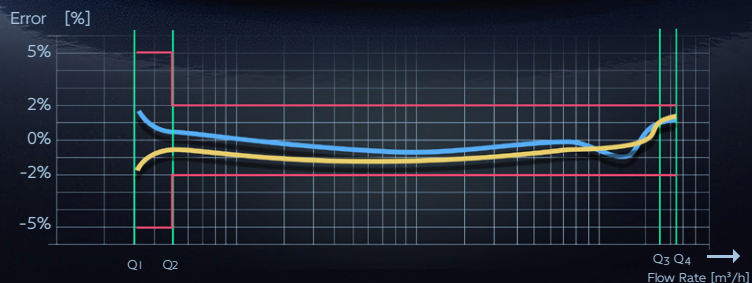
Prevent irrelevant objects from entering the water meter pipe.

BODY

PPS+GF high durability material, 100% lead free with NSF water safety certification.

SECTIONAL VIEW

TECHNICAL SPECIFICATION



Model	BECO Y			
Pipe Diameter	DN15	DN20	DN25	DN40
Q1 (m³/h) @R800	0.003125	0.005	0.007875	0.02
Q2 (m³/h)	0.003625	0.0058	0.0126	0.032
Q3 (m³/h)	2.5	4.0	6.3	16
Connection	G¾"	G1"	G¾"	G2"
Length (mm)	110/165	130/190	260	300
Width (mm)	78	78	78	78
Height (mm)	91	95	104	118
Temperature	• Medium Range: 0.1°C...50/70°C (T50/T70) • Ambient temperature: 5~55 °C • Storage temperature: -20~60 °C			
Metrological Class	Class 2, R250, R400, R500, R800			
Maximum Operation Pressure	1.6 Mpa			
Pressure Loss	ΔP < 40kPa			
Protection Class	IP68			
Battery	10- 16 years service life			
Data Storage	120 history data			
Environmental Requirement	E2, M1, O			
Interface & Communication	• LoRaWAN • NB-IoT • Sigfox • 4G • LoRaWAN+wM-Bus • wM-Bus			
Installation & Sensitivity	H/V, U0D0			
Display and Indication	• Unit: m³ / Gallon (optional) • LCD: 10-digits			
Standard Compliance	• EN14154 • ISO4064 • OIML R49			
Certification	• MID • NSF • UV			