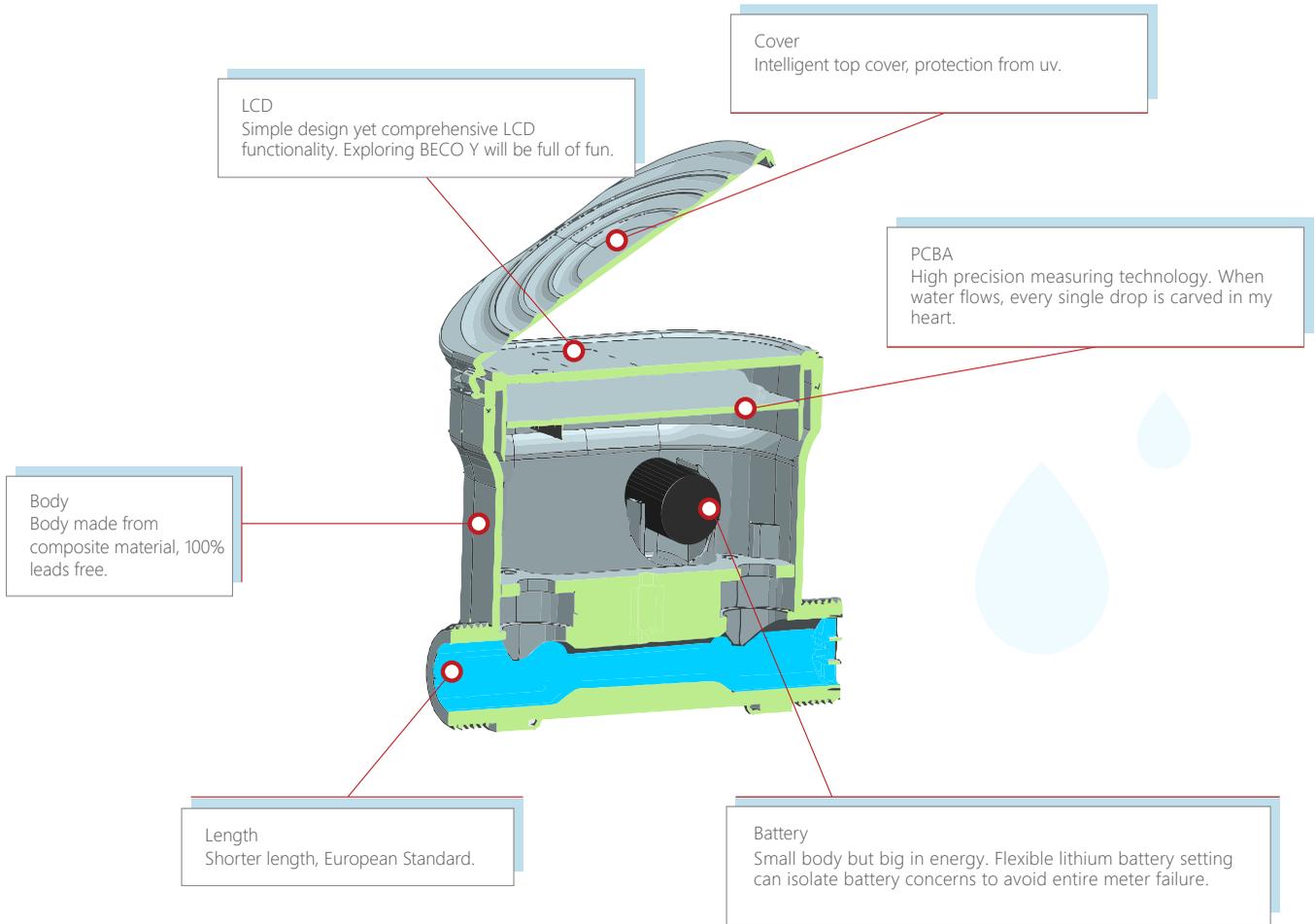


Remote Reading Ultrasonic Water Meter, developed for residential application  
Qi 0.003125 – 0.005m<sup>3</sup>/h  
Supporting LoRaWAN, NB-IoT, Sigfox, M-Bus, RS485

## BECO Y



## SECTIONAL VIEW



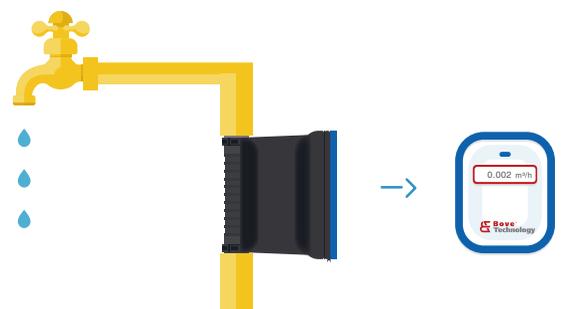
## INTRODUCTION

BECO Y is the residential water meter made by nature friendly composite material which using ultrasonic measurement technology. With dynamic range upto R800 and starting flowrate as low as 2 l/h, the water meter is produced to be high accuracy. Choosing optional communications and working together with Bove's ALPACA-E remote meter reading & control system, it is able to satisfy customers' needs: 24x7 NRW, AMI, etc. All is ready for service.

## MAIN FEATURES

### High Accuracy

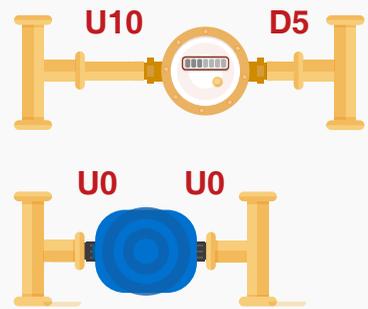
BECO Y has a starting flowrate as low as 2 l/h and dynamic range upto R800, that give the ability to measure very low flowrate. Every drop of water can be measured.



# MAIN FEATURES

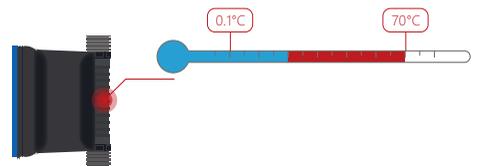
## No Straight Pipe Required

Straight piping runs doesn't matter. BECO Y can be easily installed on the pipe, you don't need to care about the straight pipe length on upstream or downstream. BECO Y will give you accurate meter readings in U0/ D0 scene.



## Hot & Cold Water Suitable

BECO Y is not only for cold water measurement but also suitable for hot water which temperature upto 70°C.



## Flexible Battery Lifespan

No moving parts, presents as IP68, low power consumption design. Body is fabricated from durable PPA+GF material. This robust design makes BECO Y highly precise and maintenance-free throughout its flexible 6/ 10/ 15 years battery life depending on customer's needs.



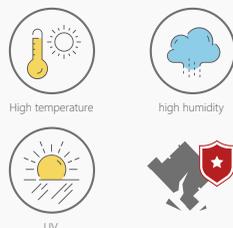
## IoT Ready

BECO Y supports multiple communication interfaces for both wired and wireless which suitable for any type of installation environment, e.g. M-Bus, RS485, LoRaWAN, NB-IoT, Sigfox.



## Durable Material

BECO Y is specially designed with durable PPA+GF material. It is able to protect from unexpected fall-down and sustain in the extreme complex environment which has high temperature, high humidity or high UV.



## Clean Water Supply (Nature Friendly)

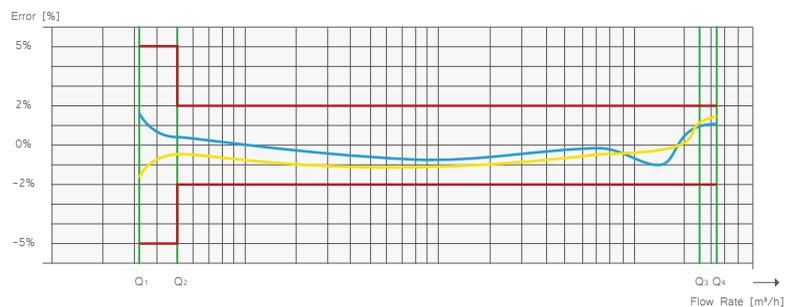
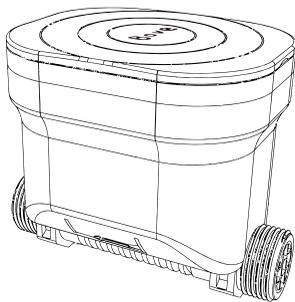
BECO Y is made from nature friendly material which is suitable for drinking water and totally leads free. Easy to get recycled after its usage life. This is highly consistent with BOVE's slogan 'creating an eco society'.





## DIMENSIONS

Model	BECO Y		
Pipe Diameter	DN15	DN20	
Minimum Flow Rate $q_i$ (m <sup>3</sup> /h) @R800	0.003125	0.005	
Permanent Flow Rate $q_p$ (m <sup>3</sup> /h)	2.5	4.0	
Maximum Flow Rate $q_s$ (m <sup>3</sup> /h)	3.125	5.0	
Connection	G3/4'	G1'	
Length (mm)	110	130	
Width (mm)	78	78	
Height (mm)	91	95	
Temperature	<ul style="list-style-type: none"> <li>• Medium Range: 0.1°C.....30/50/70°C (T30/T50/T70)</li> <li>• Ambient temperature: 5~55 °C</li> <li>• Storage temperature: -20~60 °C</li> </ul>		
Metrological Class	Class 2, R160/ R200/ R250/ R400/ R500/ R800		
Maximum Operation Pressure	1.6 Mpa		
Pressure Loss	$\Delta P < 63$ kPa		
Pressure Stage	PN16		
Protection Class	IP68		
Battery	6/ 10/ 15 years		
Flow Field Sensitivity	U0/ D0		
Data Storage	24/ 120 logs, daily/ weekly/ monthly.		
Environmental Requirement	E1, M1, B		
Interface & Communication	<ul style="list-style-type: none"> <li>• LoRaWAN</li> <li>• M-Bus</li> </ul>	<ul style="list-style-type: none"> <li>• NB-IoT</li> <li>• RS485</li> </ul>	<ul style="list-style-type: none"> <li>• Sigfox</li> </ul>
Installation	360 degree		
Display and Indication	<ul style="list-style-type: none"> <li>• Unit: L/ m<sup>3</sup>/ Gal (optional)</li> </ul>	<ul style="list-style-type: none"> <li>• LCD: 10-digit</li> </ul>	
Standard Compliance	<ul style="list-style-type: none"> <li>• EN14154</li> <li>• ISO4064</li> <li>• OIML R49</li> </ul>		



## WHY CHOOSE Bove Technology.....

When it comes to excellent water flow measurement, choose Bove! Our meters equate to reliability. We have a dedicated research and development team in our manufacturing plant to assist your needs and can address your challenges head-on regardless of size or requirement. We have in-house laboratories and highly skilled engineers that innovate products fast to anticipate the changing demands of the market. Bove has a manufacturing capacity reaching millions of units to ensure on-time delivery at the highest level of quality and reliability following ISO 9001 and 14001.