U40 ULTRASONIC WATER METER
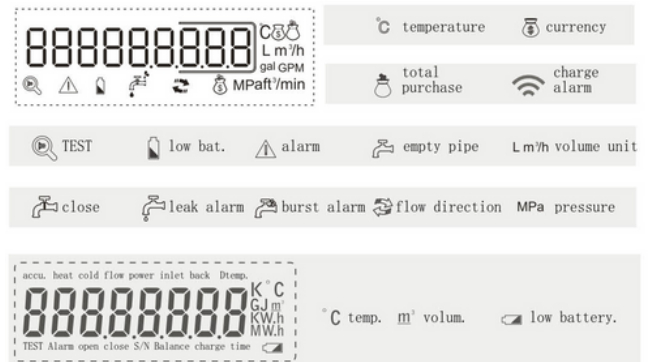
UFLO

IP68
CE
RoHS COMPLIANT

Model-U40 Series

FEATURES

- Large R value up to 500:1 (Default R250).
- Low Starting Flowrate (as low as 0.0015m3/h).
- Leak & burst alarm
- Self-Diagnosis: flow sensor fault, temperature sensor fault, the overflow, low battery alarm.
- Accurate Flow measurement algorithm.
- Intelligent correction technology, higher accuracy and reliability.
- Built-in lithium battery, life span over 6 years.
- IR interface, compatible with IR handheld reader.
- Power supply option
    Built in lithium battery (default)
    Optional DC7.5-24V external power supply in case of Rs485.
- Bidirectional flow measurement.
- Communication Interface - Mbus, WMBus, Modbus RS-485, LoRaWAN & NB-IOT.
- Optional- inbuilt pressure switch and Shut off valve.

Digital Display

℃ temperature	🜚 currency
total purchase	charge alarm
TEST	low bat.	alarm	empty pipe	L m³/h volume unit
close	leak alarm	burst alarm	flow direction	MPa pressure
℃ temp.	m³ volum.	low battery.

SELECTION PARAMETERS

* The Data is Given on base of R400 as an Example*

	Dia.	Qp	Qt	Qmin	Sensor connect.		Sensor tube			Length
	DN(mm)	Q_3(m³/h)	Q_2(m³/h)	Q_1(m³/h)	L1 (mm)	thread	L2	L3	thread	(mm)
DN15	15	2.5	0.010	0.006	12	G⅜B	43	15	R⅗	165
DN20	20	4.0	0.016	0.010	12	G1B	50	16	R¾	195
DN25	25	6.3	0.025	0.016	12	G1¼B	58	18	R1	225
DN32	32	10	0.040	0.025	13	G1½B	58	20	R1¼	180
DN40	40	16	0.064	0.040	14	G2B	59	22	R1½	200
DN50	50	25	0.160	0.1	15	G2½B	60	24	R1¾	200
Spec.	diameter: DN15~25 pressure: MAP16 temperature: (℃) 0~30 pressure drop: △p25 protect.: IP68 pipe material: brass ambient. T : (℃) −20~55 R value: 125~500 Envir. : O EMC : E2 mount: H/V up/down straight pipe : U5/D3									

COMMUNICATION MODES

LoRaWAN

NB-IoT

Modbus

M-Bus

U40 ULTRASONIC WATER METER

ORDER CODE

U40 X X-XX-X X-X

1- Meter Type
2- Communication Protocol
3- Area of Usage
4- Flow rate
5- Size
6- Range

Meter Type	Order Code
Ultrasonic	1
Electromagnetic	2
Mechanical - Single Jet	3
Mechanical - Multijet	4

Protocol	Order Code
No protocol	0
M bus	1
W Mbus	2
LoraWAN	3
Modbus	4
Pulse output	5
NB-IoT	6

Area of Usage	Order Code
Domestic -Hot	DH
Domestic - Drinking	DD

Size DN	15	20	25	32	40	50
Order Code	A	B	C	D	E	F

Range	Order Code
200	R1
250	R2
400	R3
500	R4

Flowrate m3/h	2.5	4	6.3	10	16	25
Order Code	A	B	C	D	E	F

For Example:

Order ID U4011-DH-BB-R1 stands for Flow meter ultrasonic type , Mbus interface, Domestic Hot water , Flow rate 4M3/h, Size DN 20, Range 200.

TECHNICAL PARAMETERS

Item	Parameter
Accuracy	Class 2
Nominal Diameter	DN15-DN40
Dynamic Range	R250/R400
Maximum Working Pressure	1.6Mpa
Working Environment	-25°C~+70°C. ≤100%RH (If exceeds this range, please specify when ordering)
Water Temperature Class	T30, T50, T70, default T50
Class of Upstream Flow Field Sensitivity	U0
Class of Downstream Flow Field Sensitivity	D0
Data Communication	Baud rate: 2400bps, even parity, Protocol: EN13757 Baud rate: 2400bps, 4800bps, 9600bps, default: 2400bps, transmission distances1200m. Modbus-RTU protocol, EN13757 protocol, default: EN13757 protocol 868MHz