DISTRIBUTION MAINS AND PLANT ROOMS

LXCY-50~300 Remote Ultrasonic Water Meter

A four-channel transit-time meter built as a flanged pipe section for distribution mains and plant rooms. Class 2 bidirectional measurement, 1.6 MPa body, IP68 sealing, and one communication module per meter — RS485 / M-BUS, or 2G / 4G Cat.1 / NB-IoT / LoRaWAN / Wi-SUN.

DN50–DN300	Class 2	R400 / R250	PN16	IP68	Δp16
NOMINAL SIZE	ACCURACY	RANGE RATIO	PRESSURE	WHOLE METER	PRESSURE LOSS CLASS



Production unit. Integral cast-iron flanges to ISO 4064, bolted both ends as a spool piece.

- Four measuring channels average the velocity profile across a large bore.
- Reverse flow measured and totalled, not ignored.
- Any orientation; flow-field sensitivity U0/D0.
- Minimum reading 0.1 L, and history kept over 10 years after a power loss.

SPECIFICATION

Measuring principle	Transit-time ultrasonic, four-channel, bidirectional
Accuracy	Class 2, designed and manufactured to ISO 4064
Range ratio	R400 and R250 across the range; others by custom order
Body	Integral cast-iron flanges to ISO 4064; bolted both ends
Maximum allowable pressure	1.6 MPa
Pressure loss class	Δp16
Temperature class	T30, T50
Environment class	Class O · electromagnetic E2
Protection grade	IP68, whole meter
Installation orientation	Arbitrary; flow-field sensitivity U0/D0
Power supply	3.6 V lithium battery
Battery life	≥8 years on timed upload (20 min read, 12 h upload)
Wired interfaces	RS485 / M-BUS
Wireless interfaces	2G / 4G Cat.1 / NB-IoT / LoRaWAN / Wi-SUN
Data retention	Historical data kept more than 10 years after power loss

BORES THIS SHEET COVERS

DN50, DN65, DN80, DN100, DN125, DN150, DN200, DN250 and DN300, with ISO 4064 integral cast-iron flanges. Any other drilling standard is stated at order.

ORDERING INFORMATION

State the bore, the flange drilling standard and the module. Minimum reading 0.1 L, maximum 999,999.9999 m³. Model code: **LXCY-100, DN100 four-channel, NB-IoT**.

CONTACT

Shenzhen Xingyuan Intelligent Meter Co., Ltd.
Building 35, 3rd Industrial Area, Mashantou, Matian Street, Guangming District, Shenzhen 518106, China
liz@xy-meter.com · **+86 135 1067 5597 (WhatsApp)**

Specifications subject to change without notice. Rev. 2026-11