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Golden Rules Co.,Ltd

Ultrasonic Bulk Water meter
KC-7800F




The nation's development item, 100% domestic goods, Patent **NO.** 10-1606497

Features & Benefits

- Superior hydraulic design, no moving parts, zero wear, eliminate maintenance
- Advanced ultrasonic technology for precise and ultra-reliable metering
- Extremely wide turndown ratio (R=500)
- Excellent long-term stability and reliability
- Extremely sensitive and accurate in low flows
- Battery powered - above 10 years lifetime
- Body materials - epoxy coated cast iron, carbon steel, stainless steel, suitable for utilities, waterworks, commercial, industrial, agricultural as well as ultrapure water, sea water and other corrosive fluid metering application
- Fully submersible design (IP68)

Technical Specifications

Photo	
Nominal Size	DN50~200
Maximum Working Pressure	1.6MPa
Temperature Class	T30, T50 (Higher temperature customizable)
Accuracy Class	Class 2
Battery Powered	above 10 years lifetime (20 years customizable)
Ingress Protection	IP68
Environment Temperature	-20~70°C, ≤100%RH
Pressure Loss	Δp16
Climatic and Mechanical Environment	Class C
Display	9 digit LC Display + prompts Cumulative flow (m ³ , L, GAL), Instantaneous flow (m ³ /h, U/min, GPM), Flow direction, Low battery alarm, Output mode, Leak detection, etc.
Connections	Flanges (DN50~200)
Electromagnetic Environment	E2
Flow Profile Sensitivity	U0 / D0
Date Storage	Store the data in last 7×24h, 365 days and 72 months
Output (Option)	DC24V: OCT pulse, 4-20mA Battery: RS485-MODBUS, M-BUS.
Accessories	Wireless GPRS/ GSM, Wireless handheld operator

Digital Display

	m ³	Volume		Flow direction
	m ³ /h	Flowrate		Low battery alert
		Leak detection		Pulse output
		IR Communication		Alarm
		Communication		Pressure

Measurement Range

DN	(mm)	50	65	80	100	125	150	200
	(inch)	2"	2 1/2"	3"	4"	5"	6"	8"
Starting Flow (m ³ /h)		0.005	/	0.012	0.019	0.030	0.044	0.077
Q1 (m ³ /h) (±5%)		0.080	/	0.126	0.200	0.320	0.500	0.800
Q2 (m ³ /h) (±2%)		0.130	/	0.200	0.320	0.510	0.800	1.280
Q3 (m ³ /h) (±2%)		40.0	/	63.0	100.0	160.0	250.0	400.0
Q4 (m ³ /h) (±2%)		50.0	/	78.7	125.0	200.0	312.5	500.0
R - Q3/Q1		500						

Dimensions

Installation		Nominal Size: DN50~200								
		DN	(mm)	50	65	80	100	125	150	200
		(mm)	(inch)	2"	2 1/2"	3"	4"	5"	6"	8"
L - Length				200	/	225	250	250	300	350
B - Width				165	/	200	220	250	285	340
H - Height				201	/	227.5	246.8	276	304.8	359.8
h - Height				74	/	91	100.5	117	132.5	162.5
d*n				18*4	/	18*8	18*8	18*8	22*8	22*8
K				125	/	160	180	210	240	295
Pressure (MPa)				/	/	/	1.6	1.6	1.6	1.6
Weight (kg)	-SS			/	/	/	/	18.9	/	/
	- Carbon Steel			/	/	12.5	16.8	17.2	23.8	40.1

Remarks: d: diameter of bolt holes, n: numbers of bolt holes, K: central circle diameter of bolt hole

Ordering Code

Code: KC-7800F - □ - □ - □ - □ - □		Description
Pipe Size	-XXX	DN50 to DN200 (Ex. 050-DN50, 100-DN100)
Pipe material	C	Carbon Steel
	S	SUS304
Output	1	4-20mA/ Two wire system
	2	OCT Pulse
	3	RS485 (Modbus-RTU)/ Battery
	4	M-BUS/ Battery
Connections	1	DIN (EN1092-1) Flanges
	2	ANSI/ ASME 16.5-150 Flanges
	3	JIS 10K Flanges
Accessories (optional)	0	None
	1	Wireless handheld operator
	2	External Wireless GPRS/ GSM Module



Golden Rules

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Total Instruments

professional manufacturing enterprise

Distributor

Certified in accordance with

KC Q ISO 9001 : 2015

KC Q ISO 14001 : 2015

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