Panda PWM Series

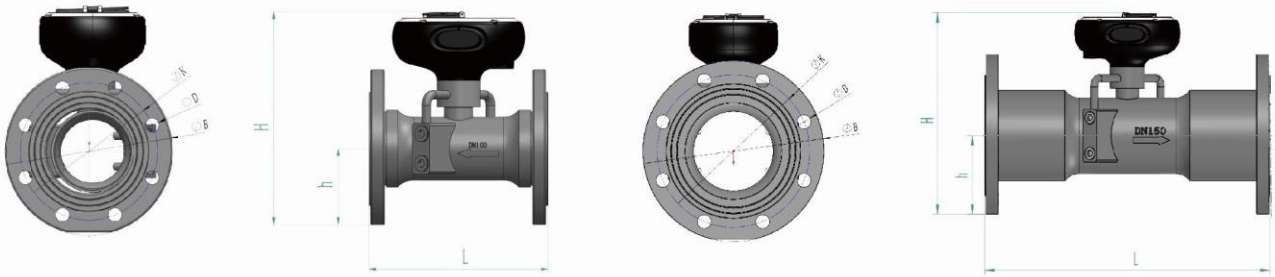
Bulk Ultrasonic Water Meter DN50-DN300

PANDA

· C Reduced Bore Measuring Range（R500）

Model		PWM			
Nominal Size	(mm)	50	65	80	100
	(inch)	2	2½	3	4
Overload Flow Q4 (m³/h)		50	78.75	78.75	125
Permanent Flow Q3 (m³/h)		40	63	63	100
Transitional Flow Q2 (m³/h)		0.128	0.202	0.202	0.320
Minimum Flow Q1 (m³/h)		0.080	0.126	0.126	0.200
R=Q3/Q1		500			
Q2/Q1		1.6			

· Dimensions & Weight



Model		PWM								
Nominal Size	(mm)	50	65	80	100	125	150	200	250	300
	(inch)	2	2.5	3	4	5	6	8	10	12
L-Standard length (mm)		200	200	225	250	250	300	350	450	500
L-Custom length (mm)		280	/	370	370	/	500	500	/	/
B-Width (mm)		162	185	200	220	255	285	340	406	489
H-Height (mm)		258	277	293	307	334	364	409	458	512
h-Height (mm)		74	89	96	106	120	138	169	189	216
D×n		18×4	18×4	18×8	18×8	18×8	22×8	22×8	22×12	22×12
K (mm)		125	145	160	180	210	240	295	350	400
Pressure(MPa)		1.6	1.6	1.6	1.6	1.6	1.6	1.0	1.0	1.0
Weight (kg)		9	11.5	13	15	17	32	45	68	96

n:Bolt Hole Numbers K:Bole Hole Diameter
Remarks: Other length of pipe can be customized

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·Type B 20% Reduced Bore / Type A (A2/A4) Full Bore, Measuring Range R250

Model		PWM								
Nominal Size	(mm)	50	65	80	100	125	150	200	250	300
	(inch)	2	2½	3	4	5	6	8	10	12
Overload Flow Q4 (m^3/h)		78.75	125	200	312.5	312.5	500	787.5	1250	2000
Permanent Flow Q3 (m^3/h)		63	100	160	250	250	400	630	1000	1600
Transitional Flow Q2 (m^3/h)		0.403	0.640	1.024	1.600	1.600	2.560	4.032	6.400	10.240
Minimum Flow Q1 (m^3/h)		0.252	0.400	0.640	1.000	1.000	1.600	2.520	4.000	6.400
R=Q3/Q1		250								
Q2/Q1		1.6								

·Type B 20% Reduced Bore / Type A (A2/A4) Full Bore, Measuring Range R500

Model		PWM								
Nominal Size	(mm)	50	65	80	100	125	150	200	250	300
	(inch)	2	2½	3	4	5	6	8	10	12
Overload Flow Q4 (m^3/h)		78.75	125	200	312.5	312.5	500	787.5	1250	2000
Permanent Flow Q3 (m^3/h)		63	100	160	250	250	400	630	1000	1600
Transitional Flow Q2 (m^3/h)		0.202	0.320	0.512	0.800	0.800	1.280	2.016	3.200	5.120
Minimum Flow Q1 (m^3/h)		0.126	0.200	0.320	0.500	0.500	0.800	1.260	2.000	3.200
R=Q3/Q1		500								
Q2/Q1		1.6								

·Type B 20% Reduced Bore, Measuring Range R1000

Model		PWM								
Nominal Size	(mm)	50	65	80	100	125	150	200	250	300
	(inch)	2	2½	3	4	5	6	8	10	12
Overload Flow Q4 (m^3/h)		78.75	125	200	312.5	312.5	500	787.5	1250	2000
Permanent Flow Q3 (m^3/h)		63	100	160	250	250	400	630	1000	1600
Transitional Flow Q2(m^3/h)		0.101	0.160	0.256	0.400	0.400	0.640	1.008	1.600	2.560
Minimum Flow Q1 (m^3/h)		0.063	0.100	0.160	0.250	0.250	0.400	0.630	1.000	1.600
R=Q3/Q1		1000								
Q2/Q1		1.6								

Remarks: Default measuring range is R250 for Type A, R500 for Type B.

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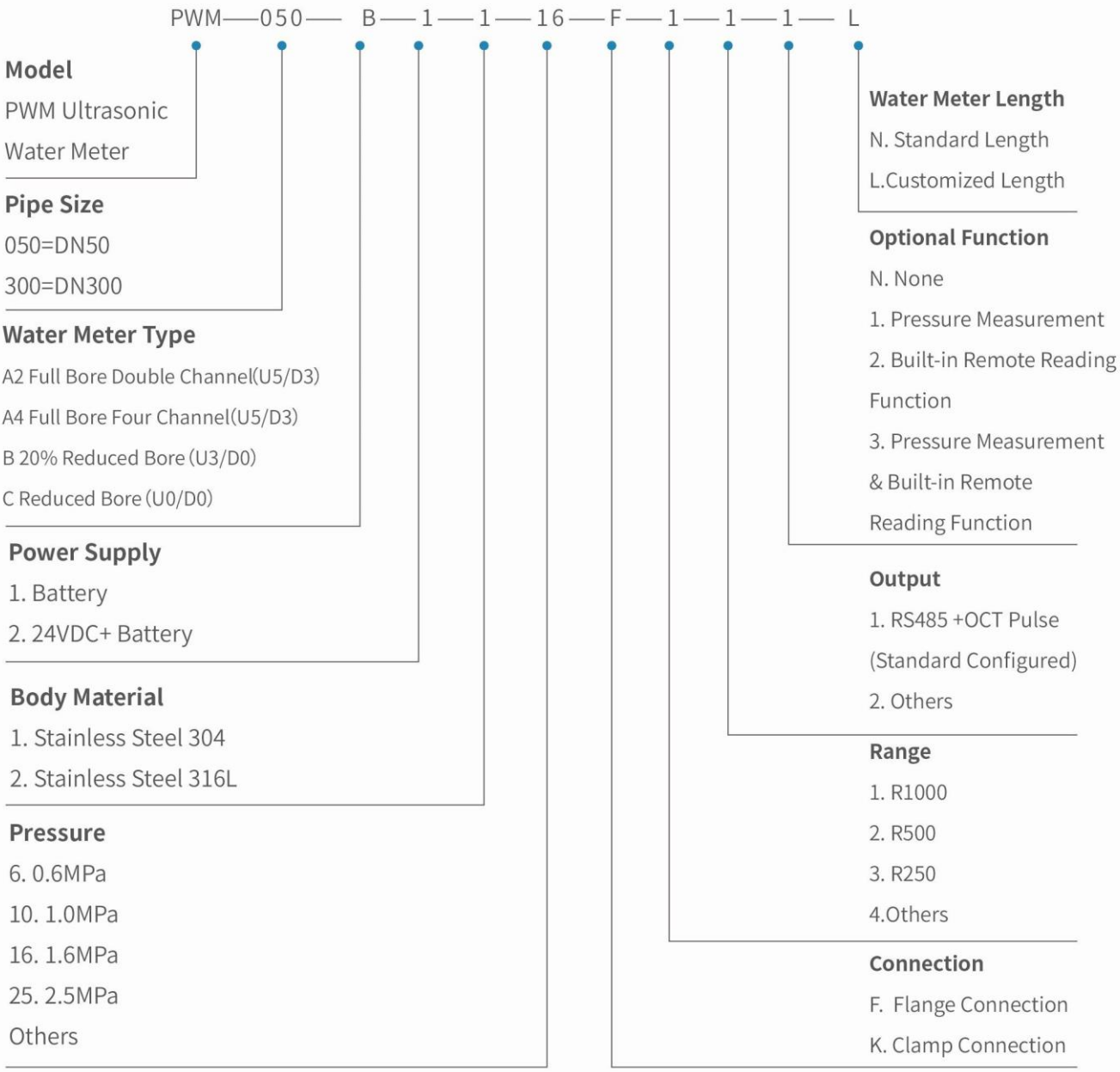
Model Selection



For Example：PWM-050-B-1-1-16-F-1-1-1-L

Stands for: PWM ultrasonic water meter, pipe size DN50, B 20% reduced bore water meter, battery power supply, stainless steel 304, pressure 1.6Mpa, flange connection, R1000, RS485 output, with pressure measurement function, customized length

Panda PG20

GPRS/NB-IoT Wireless Remote Reading Device

Features

- LCD Display Function, Real-time Data Updating
- Super Long Stand-by Time, The Battery Working Life Is 6 Years If Upload Twice one Day
- Adopt NB Communication Module, Transmit And Receive Data By Multiple Frequency Bands
- Reading Forward And Reverse Cumulative Flow, Instantaneous Flow, Pressure, Voltage etc.
- 3.6V Power Output Can Power Supply To Low-power Consumption Pressure Transmitter
- Built-in Large Data Logger Can Save 4 Months' Data
- With Power-off Memory Function, No Need To Reset Parameters After Powered off
- Automatically Transmitting And Resending Data Function
- Parameter Inquiry, Parameter Setting And Status Inquiry Can Be Carried Out Via Bluetooth

Technical Specification

Power Supply	Built-in Lithium Battery (3.6V)
External Power Supply	External 3.6V power supply for meter communication parts, current≤80mA
Consumption Current	Stand-by 30uA, transferring peak 100mA
Working Life	2 years (reading in 15 minutes, transferring in 2 hours interval) 6 years (reading in 15 minutes, transferring in 12 hours interval)
Communication	Adopt NB communication module, by frequency band B1, B2, B3, B5, B8, B12, B13 and B17 to receive and send message, monthly data usage less than 10M
Data Logger Time	Data can be saved in the device for 4 months
Enclosure Material	Cast Aluminum
Protection Class	IP68
Operation Environment	-40°C~70°C, ≤100%RH
Climate Mechanical Environment	Class O
Electromagnetic Class	E2