



# MJ Series

## Lead Free Potable Water Meter



Smart for Greenlife !

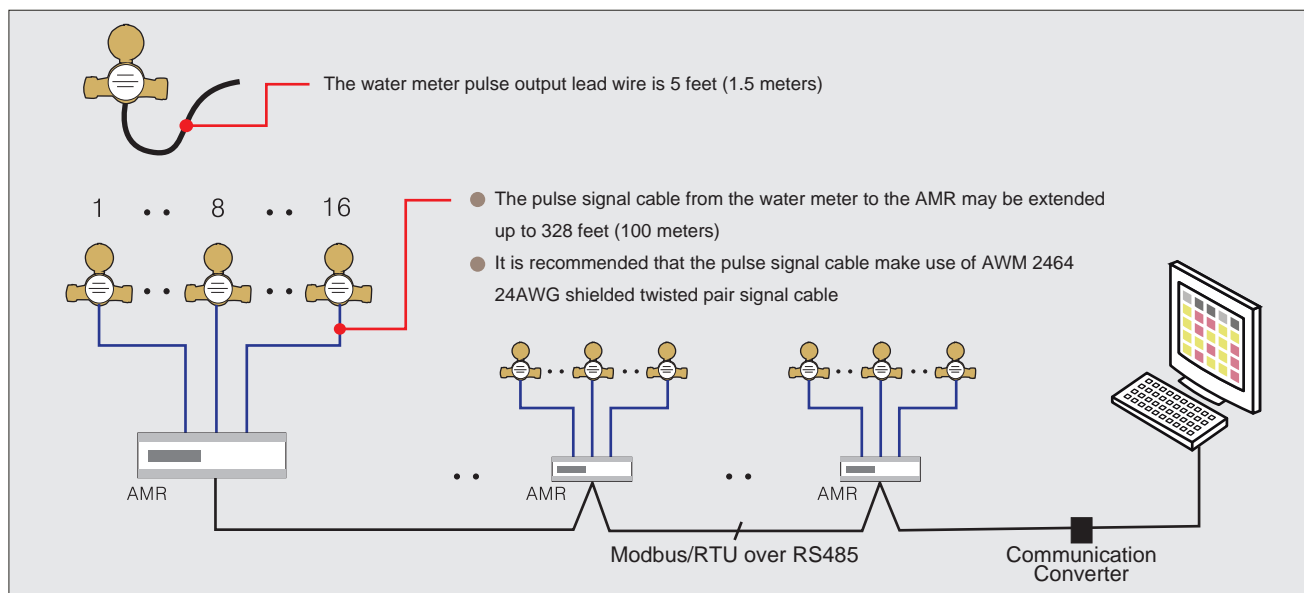
### Description

The MJ series of lead free, NSF61 certified, Multi-jet water meters include a pulse output that can be connected to a data collection device for remote auto meter reading. They are available in sizes from 1/2" up to 2", in cold water version. They are ready for use with the AMR module or AMR100/AMR130 display module which are also available from DAE; these modules collect the data from the water meters and sends it to a remote host for auto meter reading through their RS485 communication interface using the Modbus protocol.

### Features

- Water meter with pulse output, NSF61 certified for cold water meter
- Conforms to AWWA C708
- Couplings Included
- The pulse emitter device consists of a plastic housing with Reed Switch and 1.5 m cable with 2 cores in red and black
- Horizontal Inline mount with dial facing upward. Suitable for residential water metering, for metering the water consumption in your apartments, your irrigation water (which can save you in sewer costs in some areas). Also suitable for smart building, universities and commercial
- Cold water meters certified by NSF to meet ANSI/NSF 61 for material safety and ANSI/NSF 372 for lead free plumbing as defined by California, Vermont, Maryland, Louisiana state laws and the US Safe Drinking Water Act
- Ready for use with DAE AMR130 (Auto Meter Reading Module for single water meter) and AMR (Auto Meter Reading Module for 16 water meters) for remote reading
- AMR or AMR130 will collect data from water meters and send them to remote host through Modbus/RTU over RS485 with DAE software EnergyLink400 or third party software
- Only two wire connection between water meter and AMR or AMR130. It is not required for additional power source

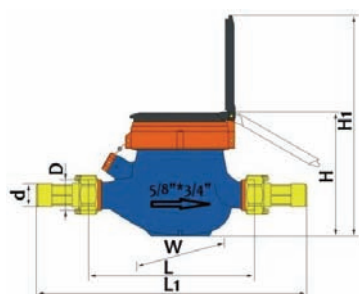
### System Architecture



## Specifications

Model	MJ-50	MJ-50R	MJ-75	MJ-75R	MJ-100	MJ-100R	MJ-150	MJ-200
Size	5/8"*1/2"		5/8"*3/4"		1"		1-1/2"	2"
Mount	Horizontal Inline mount							
Unit	Totalizer Measuring in Gallon, GPM							
Accuracy	+/-1.5% within normal flow rate range as per AWWA Standard							
NSF 61	Certified	n/a	Certified	n/a	Certified	n/a	Certified	Certified
Gallon Per Pulse	1							
Max. Reading	9,999,999.99						99,999,999.9	99,999,999.9
Min. Reading	0.005						0.05	0.05
Max. Working Pressure	150 psi							
Type	Cold	Hot	Cold	Hot	Cold	Hot	Cold	Cold
Max Temperature	122°F (50°C)	194°F (90°C)	122°F (50°C)	194°F (90°C)	122°F (50°C)	194°F (90°C)	122°F (50°C)	122°F (50°C)
Safe Maximum Flow Rate	20 GPM		20 GPM		50 GPM		100 GPM	160 GPM
Recommended Maximum Continuous Flow Rate	10 GPM		10 GPM		25 GPM		50 GPM	80 GPM
Minimum Test Flow Rate	0.25 GPM		0.25 GPM		0.75 GPM		1.5 GPM	2 GPM
Normal Test Flow Limits	1-20 GPM		1-20 GPM		3-50 GPM		5-100 GPM	8-160 GPM
Remote Reader	The pulse emitter device consists of a plastic housing with Reed Switch and 1.5 m cable with 2 cores in red and black.							

## Dimensions



Model	L mm (inch)	L1 mm (inch)	D (NPSM)	d (NPT)	H inch	H1 inch	W inch
MJ-50 MJ-50R	165 (6.5)	259 (10.2)	3/4"	1/2"	4.23	7.5	3.7
MJ-75 MJ-75R	190 (7.5)	294 (11.57)	1"	3/4"	4.23	7.5	3.7
MJ-100 MJ-100R	260 (10.25)	384 (15.12)	1-1/4"	1"	4.63	8.13	3.86
MJ-150	300 (11.81)	431 (16.97)	2"	1-1/2"	5.57	10.1	4.8
MJ-200	300 (11.81)	448 (17.64)	2-1/2"	2"	6.97	11.5	5.71

## Related Products

## Display and Communication Module



**AMR**  
16 Channels



**AMR130**  
Single Channel

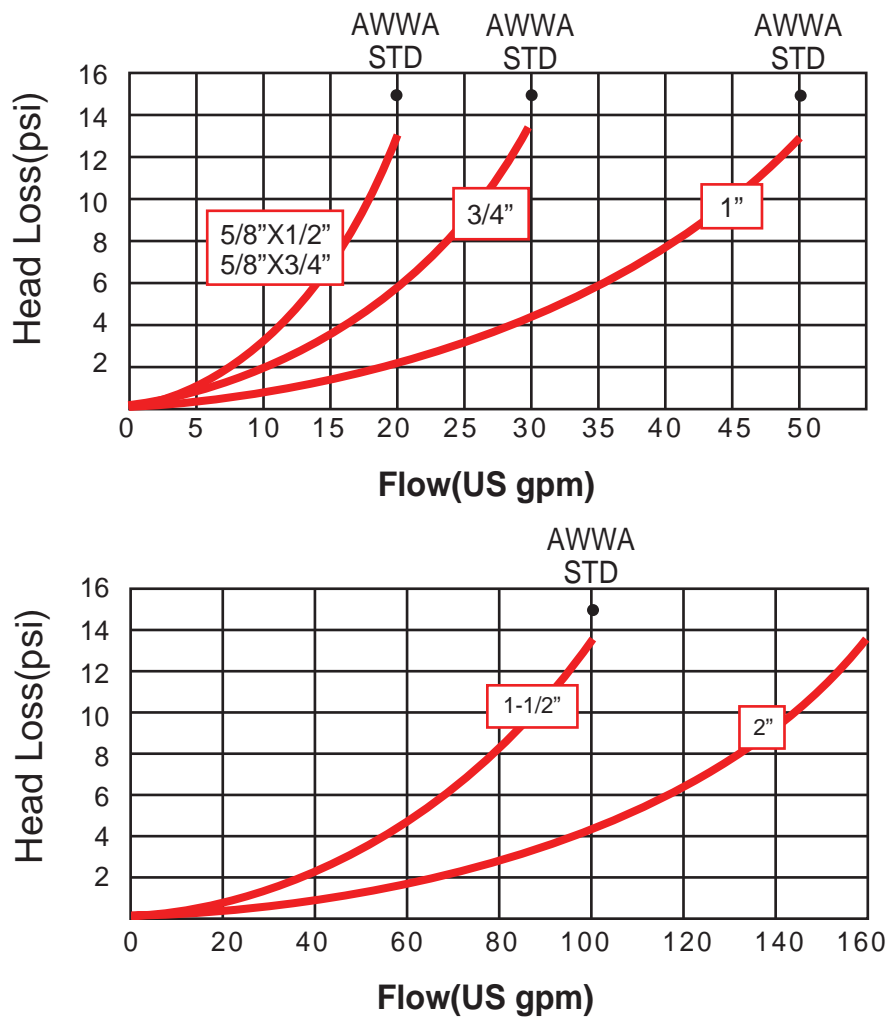


Rechargeable NiMH Batteries

- Supports water meter with pulse output
- Displays the accumulated pulse readings
- Modbus over RS485 interface for communication with host computer
- Communication distance between module and digital water meter should be less than 328 feet (100 meters, using UL2464 shield twisted pair)
- Optional rechargeable battery for continued operation during a power failure
- Requires external power supply

\* Please see AMR130 (DIN Rail) & AMR (DIN Rail) datasheet for details.

## Head Loss Curve



## Accuracy Curve

