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JUN 24 2015

DEPARTMENT OF  
WATER RESOURCES

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Attorneys for Rangen, Inc.

**BEFORE THE IDAHO DEPARTMENT OF WATER RESOURCES**

**STATE OF IDAHO**

<p><b>IN THE MATTER OF DISTRIBUTION OF WATER TO RANGEN, INC.'s WATER RIGHT NOS. 36-15501, 36-134B, AND 36-135A</b></p>	<p><b>DOCKET NO.: CM-DC-2014-004</b></p> <p><b>RANGEN, INC'S MOTION FOR PRE- APPROVAL OF MEASURING DEVICE</b></p>
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COMES NOW Rangen, Inc. ("Rangen"), by and through its attorneys of record, and hereby moves for pre-approval of a measuring device for installation on the "White Pipe".

Pursuant to the *Stipulation Between Rangen, IGWA, UVP, Pocatello, and Coalition of Cities*, filed April 8, 2015 ("Stipulation") in the above-captioned matter, no later than August 1, 2015, Rangen is required to install at its own expense a measuring device on the "White Pipe" capable of measuring to a reasonable degree of certainty how much water discharges from the

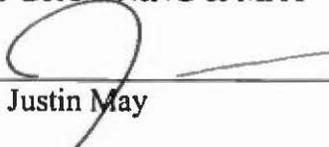
**RANGEN, INC'S MOTION FOR PRE-APPROVAL OF MEASURING DEVICE - 1**

White Pipe. Pursuant to the Stipulation, such device must be pre-approved by IDWR and constructed and maintained in accordance with industry and IDWR standards.

Attached as Exhibit "A" is Brockway Engineering's recommendations for the flow meter installation on the "White Pipe", including Installation Drawings and Manufacturer's Specs and Quotes, which Rangen hereby submits for pre-approval pursuant to the Stipulation.

DATED this 24th day of June, 2015.

MAY BROWNING & MAY

By   
 J. Justin May

**CERTIFICATE OF SERVICE**

The undersigned, a resident attorney of the State of Idaho, hereby certifies that on the 24th day of June, 2015 he caused a true and correct copy of the foregoing document to be served upon the following:

<p><b>Original:</b>          Director Gary Spackman          IDAHO DEPARTMENT OF WATER          RESOURCES          P.O. Box 83720          Boise, ID 83720-0098  <a href="mailto:deborah.gibson@idwr.idaho.gov">deborah.gibson@idwr.idaho.gov</a></p>	<p>Hand Delivery <input checked="" type="checkbox"/>          U.S. Mail <input type="checkbox"/>          Facsimile <input type="checkbox"/>          Federal Express <input type="checkbox"/>          E-Mail <input checked="" type="checkbox"/></p>
<p>Garrick Baxter          IDAHO DEPARTMENT OF WATER          RESOURCES          P.O. Box 83720          Boise, Idaho 83720-0098  <a href="mailto:garrick.baxter@idwr.idaho.gov">garrick.baxter@idwr.idaho.gov</a>  <a href="mailto:kimi.white@idwr.idaho.gov">kimi.white@idwr.idaho.gov</a></p>	<p>Hand Delivery <input type="checkbox"/>          U.S. Mail <input type="checkbox"/>          Facsimile <input type="checkbox"/>          Federal Express <input type="checkbox"/>          E-Mail <input checked="" type="checkbox"/></p>
<p>Randall C. Budge          Thomas J. Budge          RACINE, OLSON, NYE, BUDGE &amp; BAILEY,          CHARTERED          P.O. Box 1391          Pocatello, ID 83204-1391          Fax: 208-232-6109</p>	<p>Hand Delivery <input type="checkbox"/>          U.S. Mail <input type="checkbox"/>          Facsimile <input type="checkbox"/>          Federal Express <input type="checkbox"/>          E-Mail <input checked="" type="checkbox"/></p>

<p>rcb@racinelaw.net  tjb@racinelaw.net  bjh@racinelaw.net</p>	
<p>Sarah Klahn  Mitra Pemberton  WHITE &amp; JANKOWSKI  Kittredge Building,  511 16th Street, Suite 500  Denver, CO 80202  sarahk@white-jankowski.com  mitrap@white-jankowski.com</p>	<p>Hand Delivery <input type="checkbox"/>  U.S. Mail <input type="checkbox"/>  Facsimile <input type="checkbox"/>  Federal Express <input type="checkbox"/>  E-Mail <input checked="" type="checkbox"/></p>
<p>Dean Tranmer  CITY OF POCATELLO  P.O. Box 4169  Pocatello, ID 83201  dtranmer@pocatello.us</p>	<p>Hand Delivery <input type="checkbox"/>  U.S. Mail <input type="checkbox"/>  Facsimile <input type="checkbox"/>  Federal Express <input type="checkbox"/>  E-Mail <input checked="" type="checkbox"/></p>
<p>Robert E. Williams  WILLIAMS MESERVY &amp; LOTHSPREICH  P.O. Box 168  Jerome, ID 83338  rewilliams@cableone.net</p>	<p>Hand Delivery <input type="checkbox"/>  U.S. Mail <input type="checkbox"/>  Facsimile <input type="checkbox"/>  Federal Express <input type="checkbox"/>  E-Mail <input checked="" type="checkbox"/></p>
<p>Candice McHugh  Chris M. Bromley  MCHUGH BROMLEY  380 S. 4<sup>th</sup> St., Ste. 103  Boise, ID 83702  cmchugh@mchughbromley.com  cbromley@mchughbromley.com</p>	<p>Hand Delivery <input type="checkbox"/>  U.S. Mail <input type="checkbox"/>  Facsimile <input type="checkbox"/>  Federal Express <input type="checkbox"/>  E-Mail <input checked="" type="checkbox"/></p>
<p>Jerry R. Rigby  Hyrum Erickson  Robert H. Wood  RIGBY, ANDRUS &amp; RIGBY, CHARTERED  25 North Second East  Rexburg, ID 83440  jrigby@rex-law.com  herickson@rex-law.com  rwood@rex-law.com</p>	<p>Hand Delivery <input type="checkbox"/>  U.S. Mail <input type="checkbox"/>  Facsimile <input type="checkbox"/>  Federal Express <input type="checkbox"/>  E-Mail <input checked="" type="checkbox"/></p>
<p>John K. Simpson  Travis L. Thompson  Paul L. Arrington  BARKER, ROSHOLT &amp; SIMPSON  195 River Vista Pl., Ste. 204  Twin Falls, ID 83301  jks@idahowaters.com</p>	<p>Hand Delivery <input type="checkbox"/>  U.S. Mail <input type="checkbox"/>  Facsimile <input type="checkbox"/>  Federal Express <input type="checkbox"/>  E-Mail <input checked="" type="checkbox"/></p>

tlt@idahowaters.com pla@idahowaters.com	
W. Kent Fletcher FLETCHER LAW OFFICE P.O. Box 248 Burley, ID 83318 wkf@pmt.org	Hand Delivery <input type="checkbox"/> U.S. Mail <input type="checkbox"/> Facsimile <input type="checkbox"/> Federal Express <input type="checkbox"/> E-Mail <input checked="" type="checkbox"/>


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 J. Justin May



**BROCKWAY**  
ENGINEERING  
P.L.L.C.

Hydraulics

Hydrology

Water Resources

RECEIVED  
JUN 08 2015  
May, Browning & May

June 4, 2015

Justin May  
1419 W. Washington St.  
Boise, ID 83702-5039

Re: Rangen Pipeline Flow Meter

Dear Justin:

Enclosed is Brockway Engineering's recommendation for the flow meter installation on the Rangen pipeline from Martin-Curren tunnel.

I have included the manufacture's specifications and drawings for the meter and installation.

The recommended flow meter is on the IDWR approved meter list and the console readout includes both instantaneous discharge and accumulated volume.

Sincerely,

*Charles E. Brockway* on behalf of  
Charles E. Brockway, P.E. PhD.

Encls: Recommendations for Flow Meter  
Installation Drawings  
Manufactures Specs and Quote

CC: Joy Kinyon - Rangen

CHARLES E.  
BROCKWAY,  
PH.D., P.E.

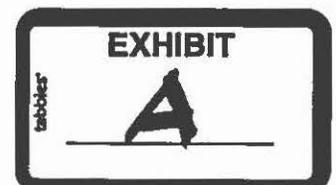
CHARLES G.  
BROCKWAY,  
PH.D., P.E.

2016 NORTH  
WASHINGTON  
STREET • SUITE 4

TWIN FALLS,  
IDAHO 83301

208•736•8543

FAX: 736•8506



## **Recommendations for Permanent Flow Meter Installation-Rangen Inc.**

Brockway Engineering PLLC June 4, 2015 C.E. Brockway P.E. PhD

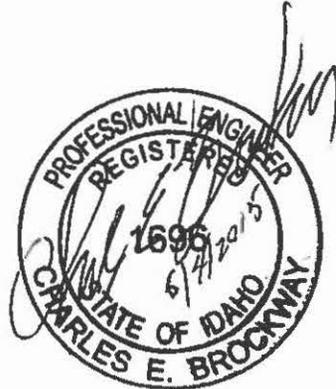
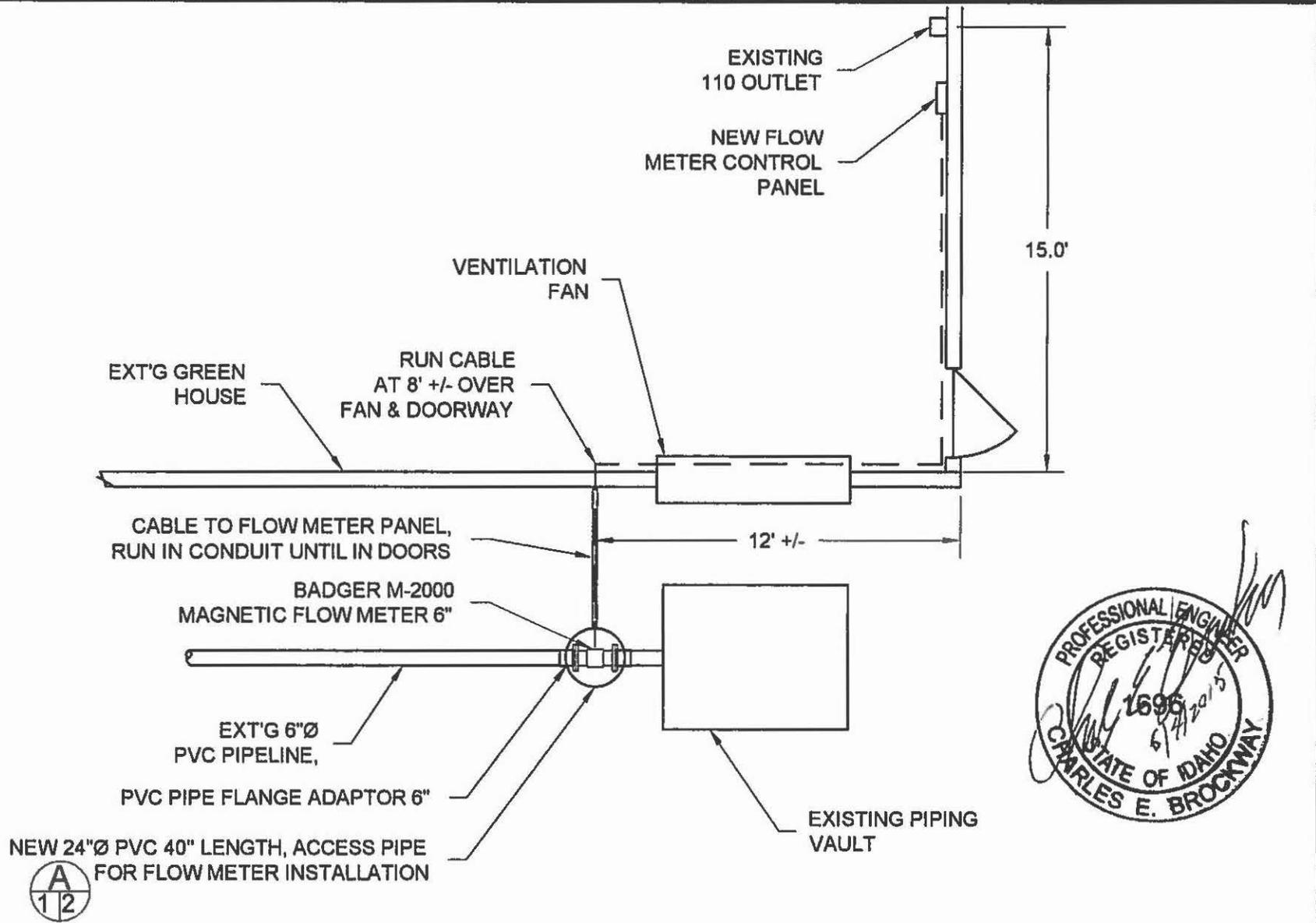
The 6 inch diameter white pipe which conveys water from the inside of the Martin-Curren Tunnel to the Rangen green house has no flow meter installed. The white pipe flows above ground to a point just east of the hatch house and at an elevation just above the steel pipeline to. From that point the 6 inch pipe is buried until it enters the valve box north of the hatch house.

Discharge in the 6 inch pipe to the hatch house should be monitored continuously and preferably include a remote readout located in a protected area. A magnetic in-line flow meter approved by IDWR in a buried vault is recommended. The Badger M-2000, 6 inch magnetic flow meter is approved and is reasonably priced. , Figure 1 shows the schematic of the proposed installation immediately in front of the existing valve box with remote readout in the green house so that the console is protected from in-climate weather and unwanted accessibility. A logging kit is available for this meter which allows storage of data that can be downloaded at any time for presentation purposes.

The Badger M2000 , M2K-060-RM-N6P, flow meter and logging kit is recommended with remote console mount in the green house. This meter and logging kit including cable was quoted at \$2848 (quote attached).

The flow meter and console can be installed by Rangen personnel with electrical hookup from the existing 110v outlet on the east wall of the greenhouse. Note that the manufacture's recommendation for placement of the meter in the pipe is to maintain 3 diameters of straight pipe upstream and 2 diameters downstream

The proposed meter and installation will meet criteria for approval by IDWR and the Watermaster, District 36. However, installation should be deferred until the approval is received.



NEW 24"Ø PVC 40" LENGTH, ACCESS PIPE FOR FLOW METER INSTALLATION



**1** PROPOSED FLOW METER LOCATION  
SCALE: 1"=5'

THIS DRAWING HAS BEEN PREPARED BY BROCKWAY ENGINEERING, PLLC FOR A SPECIFIC PROJECT. IT IS TO BE USED ONLY FOR THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT. REUSE OF THIS DRAWING FOR ANY PURPOSE IS PROHIBITED UNLESS WE HAVE GIVEN WRITTEN PERMISSION FROM BOTH BROCKWAY ENGINEERING & THE CLIENT IS GRANTED.

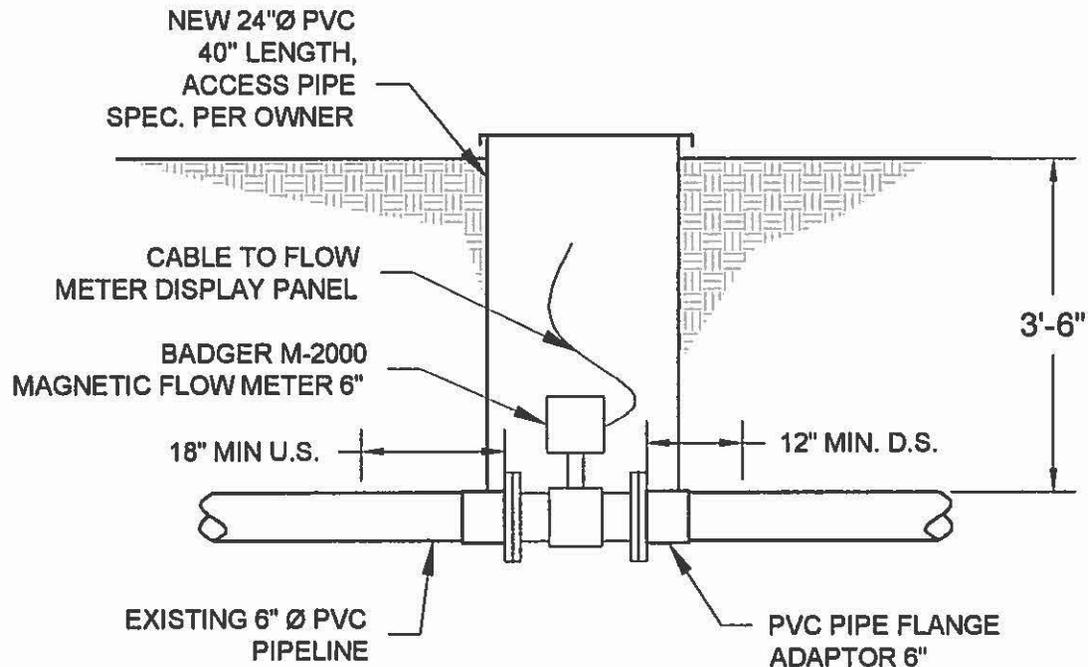
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A	ISSUE FOR CONSTRUCTION	6/11/15	<i>ALR</i>

DESIGNED BY  
CGB  
DRAFTED BY  
ALR

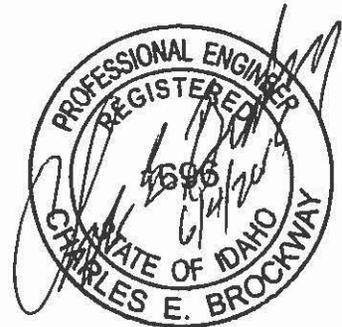
**BROCKWAY ENGINEERING, PLLC**  
HYDRAULICS - HYDROLOGY - WATER RESOURCES  
2018 NORTH WASHINGTON, SUITE 4  
TWIN FALLS, ID 83301  
(208) 738-8543

**RANGEN RESEARCH FACILITY**  
**FLOW METER INSTALLATION PLAN**

PROJECT #	1159-01-2011
DWG#	1
REV	



**A** **FLOW METER**  
 1 | 2  
 SCALE: 1/2"=1'



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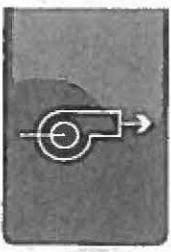
REV	DESCRIPTION	DATE	APPRO. BY
A	ISSUE FOR CONSTRUCTION	8/4/15	<i>CLR</i>

DESIGNED BY	COB
DRAFTED BY	ALR

**BROCKWAY ENGINEERING, PLLC**  
 HYDRAULICS - HYDROLOGY - WATER RESOURCES  
 2016 NORTH WASHINGTON, SUITE 4  
 TWIN FALLS, ID 83301  
 (208) 738-8543

**RANGEN RESEARCH FACILITY**  
**FLOW METER INSTALLATION SECTION**

PROJECT #	1158-01-2011
DWG#	2
REV	



### DESCRIPTION

The Badger Meter M-2000 Series magnetic flow meter is the result of years of research and field use in electromagnetic flow meters. The M-2000 can measure almost any liquid, slurry or paste that has minimum electrical conductivity. These meters are perfect for flow measurement in commercial HVAC water systems, wastewater, reclaimed water, irrigation and industrial applications because they can handle suspended solids, have no pressure drop, no moving parts, and their accuracy is not affected by temperature, pressure, viscosity, density or flow profile. They are NSF listed for use in potable water. The ANSI 150 RF flanged pipe spool makes them easy to install and they are available with the NEMA 4X (IP66) integral amplifier (transmitter and display housing) mounted atop the flow detector housing, or with the amplifier remotely mounted. For the remote mount configuration, a 30 ft. cable is standard (other lengths available) and the detector housing comes with either a NEMA 4X or NEMA 6P (submersible) junction box. Each meter is factory calibrated and tested and a certificate is included.



6  
FLOW

### FEATURES

- High accuracy of +/- 0.25% and flow range of 300:1 for reliable measurement
- Unaffected by most solids contained in the fluid for application flexibility
- Pulsed DC magnetic field for zero point stability
- Corrosion resistant liners provide long life
- Grounding rings included for non-conductive piping
- Bidirectional flow sensing and totalization for reversing system application
- Empty pipe detection feature generates error message when pipe is not full
- NEMA 4X (IP66) enclosure for installation in exposed areas
- Large backlit 4-line, 20 character LCD display for local indication and programming even in low light conditions
- Modbus RTU via RS232 communications for network systems

SPECIFICATIONS	
<b>Supply Voltage</b>	85-265 VAC (45-65 Hz)
<b>Supply Watts</b>	15 W
<b>Digital Inputs</b>	Maximum 30 VDC, programmable as positive zero return, external totalizer reset, or preset batch start
<b>Maximum Output Impedance</b>	800 ohms @ 24 VDC
<b>Outputs</b>	0-20 mA, 4-20 mA, 0-10 mA, or 2-10 mA
<b>Analog output</b>	Four configurable, 24 VDC sourcing outputs (maximum of two) 50 mA each or 100 mA total, sinking open collector outputs (maximum of four) 100 mA each or 30 VDC total, AC solid state relay (maximum of two) 48 VAC
<b>Digital outputs</b>	500 mA maximum
<b>Pulse outputs</b>	Scalable up to 10 kHz, passive open collector up to 10 kHz active switched 24 VDC, up to two outputs (forward and reverse flow), pulse width programmable from 1 to 1,000 ms or 50% duty cycle
<b>Frequency output</b>	Scaleable up to 10 kHz open collector, up to 1 kHz solid state relay
<b>Alarm</b>	High/low flow alarm, error alarm, empty pipe alarm outputs
<b>Wiring Terminations</b>	1/2" NPT conduit connection and 3 cord grips on amplifier housing; 30 ft. standard length cable for remote mount configurations (other lengths available)
<b>Communication Accuracy</b>	RS232 - Modbus RTU or remote display ±0.25% of flow rate for velocities greater than 1.64 fps (0.5 mps); ±0.004% for lower velocities
<b>Repeatability</b>	±0.1%
<b>Display</b>	Backlit, 4 line, 20 character LCD and 3-button programming keys
<b>Engineering Units</b>	Ounces, pounds, liters, US gallons, imperial gallons, barrels, hectoliters, megagalions, cubic meters, cubic feet, acre feet
<b>Pipe Size Range</b>	1" to 24" standard (1/4", 1/2" and 28" to 54" also available), ANSI 150 RF flanges standard
<b>Flow Range</b>	Unidirectional or bidirectional with two separate totalizers (programmable) 0.10 to 39.4 fps (0.03 to 12 mps)
<b>Velocity Range</b>	-4° to 140°F (-20° to 60°C)
<b>Operating Temperature</b>	Up to 90% non-condensing
<b>Operating Humidity</b>	Many fluid applications including hot or chilled water, glycol solutions; minimum conductivity 5.0 µΩ/cm
<b>Media Compatibility</b>	
<b>Media Temperature Range</b>	178°F (80°C) with rubber liner; 212°F (100°C) with PTFE liner and local mount amp; 311°F (155°C) with PTFE liner and remote mount amp
<b>Maximum Pressure</b>	285 psig at ambient temperature, refer to ANSI B16.5 standard for 150 lb RF flanges for temperature/pressure spec
<b>Materials Of Construction</b>	Meter housing and flanges: carbon steel Liner: Rubber Electrodes: Alloy C Pipe spool: 316 SS Grounding rings: stainless steel Amplifier housing: cast aluminum with powder-coat paint
<b>Enclosure Rating</b>	NEMA 4X (IP66) amplifier housing; NEMA 4X or NEMA 6P detector housing junction box for remote mount configuration
<b>Approvals</b>	NSF Listed, CE
<b>Warranty</b>	1 year

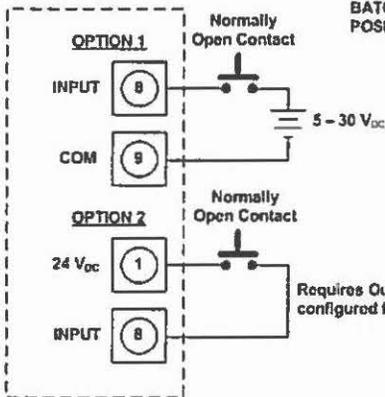


# FLOW

## MAGNETIC FLOW METER M-2000 SERIES

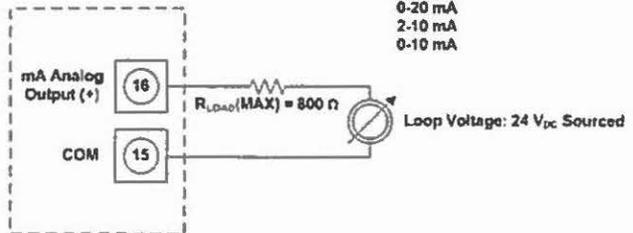
### WIRING

#### DIGITAL INPUT



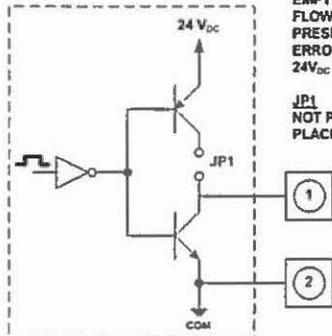
**PROGRAMMABLE FUNCTIONS**  
REMOTE RESET  
BATCH RESET  
POSITIVE RETURN TO ZERO

#### ANALOG OUTPUT



**PROGRAMMABLE RANGE**  
4-20 mA  
0-20 mA  
2-10 mA  
0-10 mA

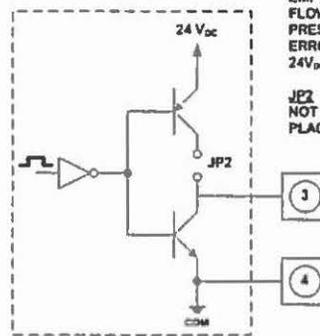
#### OUTPUT #1



**PROGRAMMABLE FUNCTIONS**  
FORWARD PULSE  
REVERSE PULSE  
AMR PULSE  
FLOW SET POINT  
EMPTY PIPE ALARM  
FLOW DIRECTION  
PRESET OUTPUT  
ERROR ALARM  
24V<sub>DC</sub> SUPPLY

JP1  
NOT PLACED: PASSIVE OPERATION  
PLACED: ACTIVE OPERATION

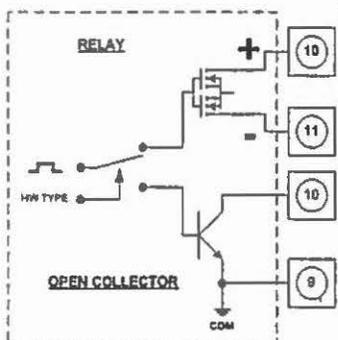
#### OUTPUT #2



**PROGRAMMABLE FUNCTIONS**  
FORWARD PULSE  
REVERSE PULSE  
FLOW SET POINT  
EMPTY PIPE ALARM  
FLOW DIRECTION  
PRESET OUTPUT  
ERROR ALARM  
24V<sub>DC</sub> SUPPLY

JP2  
NOT PLACED: PASSIVE OPERATION  
PLACED: ACTIVE OPERATION

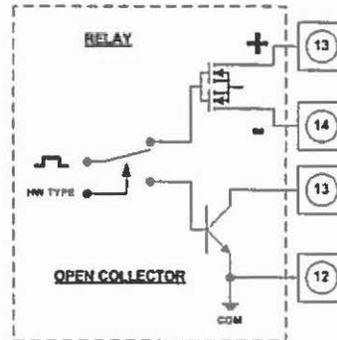
#### OUTPUT #3



**PROGRAMMABLE FUNCTIONS**  
FREQUENCY OUTPUT  
FLOW SET POINT  
EMPTY PIPE ALARM  
FLOW DIRECTION  
PRESET OUTPUT  
ERROR ALARM

**PROGRAMMABLE CIRCUIT**  
SOLID STATE RELAY  
OPEN COLLECTOR

#### OUTPUT #4



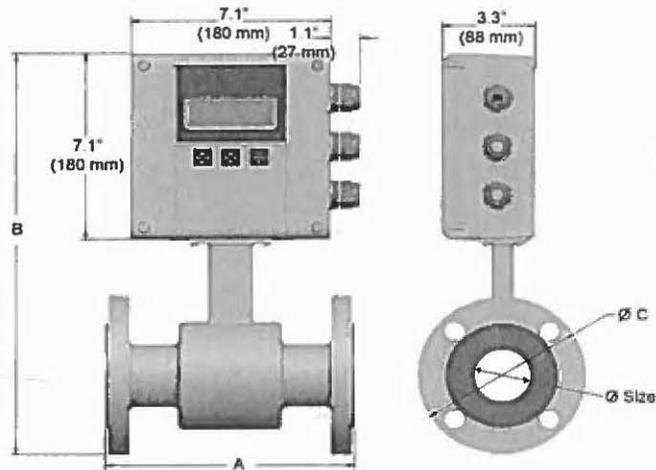
**PROGRAMMABLE FUNCTIONS**  
FLOW SET POINT  
EMPTY PIPE ALARM  
FLOW DIRECTION  
PRESET OUTPUT  
ERROR ALARM

**PROGRAMMABLE CIRCUIT**  
SOLID STATE RELAY  
OPEN COLLECTOR



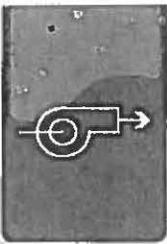
### DIMENSIONS

Note: Dimension D in table below is overall height (similar to dimension B) to the top of junction box, for assemblies with remote amplifier configuration.



### DIMENSIONS AND FLOW RANGES

Size	A	B	C	D	Weight	Flow Range
1" (DN25)	8.9" (22.5 cm)	14.4" (36.6 cm)	4.3" (10.8 cm)	11.7" (29.8 cm)	18 lb (8.0 kg)	0.3 to 93 gpm (1.2 to 350 lpm)
1-1/4" (DN32)	8.9" (22.5 cm)	15.2" (38.6 cm)	4.6" (11.7 cm)	12.5" (31.8 cm)	20 lb (9.0 kg)	0.5 to 150 gpm (2.0 to 575 lpm)
1-1/2" (DN40)	8.9" (22.5 cm)	15.4" (39.0 cm)	5.0" (12.7 cm)	12.7" (32.2 cm)	21 lb (9.5 kg)	0.8 to 239 gpm (3 to 900 lpm)
2" (DN50)	8.9" (22.5 cm)	15.9" (40.3 cm)	6.0" (15.2 cm)	13.2" (33.5 cm)	26 lb (11.5 kg)	1 to 373 gpm (4.7 to 1400 lpm)
2-1/2" (DN65)	11.0" (28.0 cm)	17.1" (43.4 cm)	7.0" (17.8 cm)	14.4" (36.6 cm)	52 lb (23.5 kg)	2 to 631 gpm (8 to 2400 lpm)
3" (DN80)	11.0" (28.0 cm)	17.3" (44.0 cm)	7.5" (19.1 cm)	14.7" (37.2 cm)	54 lb (24.5 kg)	3 to 956 gpm (12 to 3600 lpm)
4" (DN100)	11.0" (28.0 cm)	18.4" (46.6 cm)	9.0" (22.9 cm)	15.7" (39.8 cm)	56 lb (25.5 kg)	5 to 1493 gpm (19 to 5600 lpm)
5" (DN125)	15.8" (40.0 cm)	19.6" (49.8 cm)	10.0" (25.4 cm)	16.9" (43.0 cm)	58 lb (26.0 kg)	8 to 2334 gpm (30 to 8800 lpm)
6" (DN150)	15.8" (40.0 cm)	20.6" (52.4 cm)	11.0" (27.9 cm)	17.9" (45.6 cm)	60 lb (27.0 kg)	11 to 3361 gpm (40 to 12,700 lpm)
8" (DN200)	15.8" (40.0 cm)	22.5" (57.2 cm)	13.5" (34.3 cm)	20.4" (51.8 cm)	86 lb (39.0 kg)	20 to 5975 gpm (75 to 22,600 lpm)
10" (DN250)	19.7" (50.0 cm)	26.8" (68.1 cm)	16.0" (40.6 cm)	24.1" (61.3 cm)	178 lb (81 kg)	30 to 9336 gpm (120 to 35,300 lpm)
12" (DN300)	19.7" (50.0 cm)	28.9" (73.4 cm)	19.0" (48.3 cm)	26.2" (66.6 cm)	207 lb (94 kg)	45 to 13,444 gpm (170 to 50,800 lpm)
14" (DN350)	19.7" (50.0 cm)	30.8" (78.2 cm)	21.0" (53.3 cm)	28.2" (71.6 cm)	258 lb (117 kg)	60 to 18,299 gpm (230 to 69,200 lpm)
16" (DN400)	23.6" (59.0 cm)	33.7" (85.6 cm)	23.5" (59.7 cm)	31.0" (78.8 cm)	306 lb (139 kg)	80 to 23,901 gpm (300 to 90,400 lpm)
18" (DN450)	23.6" (59.0 cm)	35.0" (89.0 cm)	25.0" (63.5 cm)	32.4" (82.2 cm)	400 lb (181 kg)	100 to 30,250 gpm (380 to 114,000 lpm)
20" (DN500)	23.6" (59.0 cm)	38.2" (96.9 cm)	27.5" (69.9 cm)	35.5" (90.1 cm)	493 lb (224 kg)	125 to 37,346 gpm (470 to 140,000 lpm)
22" (DN550)	23.6" (59.0 cm)	39.6" (100 cm)	29.5" (74.9 cm)	36.9" (93.7 cm)	523 lb (237 kg)	150 to 45,188 gpm (570 to 170,000 lpm)
24" (DN600)	23.6" (59.0 cm)	42.2" (107 cm)	32.0" (81.3 cm)	39.5" (100 cm)	552 lb (251 kg)	180 to 53,778 gpm (680 to 200,000 lpm)



# FLOW

## MAGNETIC FLOWMETER M-2000 SERIES

### APPLICATION AND INSTALLATION

The M-2000 provides two amplifier mounting options, integral or remote. The amplifier housing is NEMA 4X rated and can be located outdoors; observe the operating temperature range of -4° to 140°F (-20° to 60°C). If located outdoors, provide a roof or shield over the amplifier to protect the LCD display from direct sunlight. If the amplifier is to be remote mounted, standard available cable lengths are 15', 30', 50' and 100' (up to 500' optional).

Magnetic flowmeters can operate accurately in any pipeline orientation and can measure flow in both directions. A "Forward Flow" direction arrow is printed on the detector label. They also perform best when placed in a vertical pipe with the liquid flowing upward; this assures a full pipe at all times and minimizes sediment deposits on the liner and electrodes. If mounting in a horizontal pipe, mount the detector such that the electrodes are on the sides of the pipe, not the top and bottom, also to minimize deposits and build-up on the electrodes. Avoid locations where a partially-filled piping situation can occur; the meter will display an "Empty Pipe Detection" message and will stop measuring flow until the pipe is full.

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Sufficient straight-pipe runs are required for optimum accuracy and performance. A minimum of 3 diameters upstream and 2 diameters downstream are required (more is better).

Grounding is critical for magnetic flow meters; they must be electrically connected to the liquid media. If using non-conductive piping, the grounding rings (included) must be properly installed. See the M-2000 manual for details.

### ORDERING INFORMATION

MODEL	DESCRIPTION
M2K-	Magnetic flowmeter
	<b>SIZE CODE</b> <b>PIPE SIZE</b>
	010    1"
	013    1-1/4"
	015    1-1/2"
	020    2"
	025    2-1/2"
	030    3"
	040    4"
	050    5"
	060    6"
	080    8"
	100    10"
	120    12"
	140    14"
	160    16"
	180    18"
	200    20"
	220    22"
	240    24"
	<b>LINER CODE</b> <b>LINER MATERIAL</b>
	R-    Rubber
	T-    PTFE
	<b>AMPLIFIER OPTIONS</b>
	LC    Local mount amplifier, NEMA 4X (IP66) housing
	RM-N4X    Remote mount amp, 30 ft. cable, NEMA 4X junction box on detector tube
	RM-N6P    Remote mount amp, 30 ft. cable, NEMA 6P junction box on detector tube

M2K-    040    R-    LC

Example: M2K-040R-LC 4" magnetic flowmeter with rubber liner, local mount amplifier

FLOW

