

ULTRA MAG®

MODEL UM06 AND UM08 ULTRA MAG® ELECTROMAGNETIC FLOW METER 150 PSI FLANGED TUBE METER, SIZES 2" thru 36" 300 PSI FLANGED TUBE METER, SIZES 2" thru 30"



TYPICAL
SIGNAL CONVERTER



DESCRIPTION

MODELS UM06 AND UM08 FLANGED TUBE ULTRA MAG® meters are manufactured to the highest standard available for magmeters. They incorporate microprocessor technology to offer very low flows, broad rangeability and are CSA approved. The flanged end tube design permits use in a wide range of applications with up to 300 PSI working pressure. Flanged ends are Class "D" flat face flanges (150 PSI) or Class "F" raised face flanges (300 PSI). The fabricated tube is stainless steel with steel or stainless steel flanges and is lined with UltraLiner, an NSF approved, fusion bonded epoxy material.

INSTALLATION is made similar to placing a short length of flanged end pipe in the line. The meter can be installed vertically, horizontally, or inclined on suction or discharge lines. The meter must have a full pipe of liquid for proper operation. Fluid must be grounded to the downstream flange of the sensor using McCrometer 316 SS Grounding Rings. Any 90 or 45 degree elbows, valves, partially opened valves, etc. should not be placed closer than five to ten pipe diameters upstream and two pipe diameters downstream. All blending and chemical injection should be done early enough so the flow media is thoroughly mixed prior to entering the measurement area.

SIGNAL CONVERTER All converters, indicators, totalizers and 4-20 mA transmitters are factory programmed for every meter at desired requirements. The microprocessor-based signal converter has a self diagnostic test mode. It features a backlit display that continuously displays "Rate of Flow" and "Total Volume." The signal converter configuration parameters are lockout protected, but can be changed via the front panel keypad or with the use of a personal computer or electronic organizer with a 9-pin RS232 serial interface port. It is compatible with Microsoft Windows and many other software programs with built in terminal communication capabilities. The converter is in a sealed, NEMA 4X case and may be located up to a maximum of 300 feet away from meter.

OPTIONAL Complete line of Instrumentation
Separate 4-20 mA output for reverse flow
"Hart" protocol compatible converter
DC powered converter (11-40 VDC, 20 VA)
Meter mounted converter
Five-year warranty
Hastelloy electrodes
ANSI or DIN flanges
Submersible and buriable cable
Special laying lengths

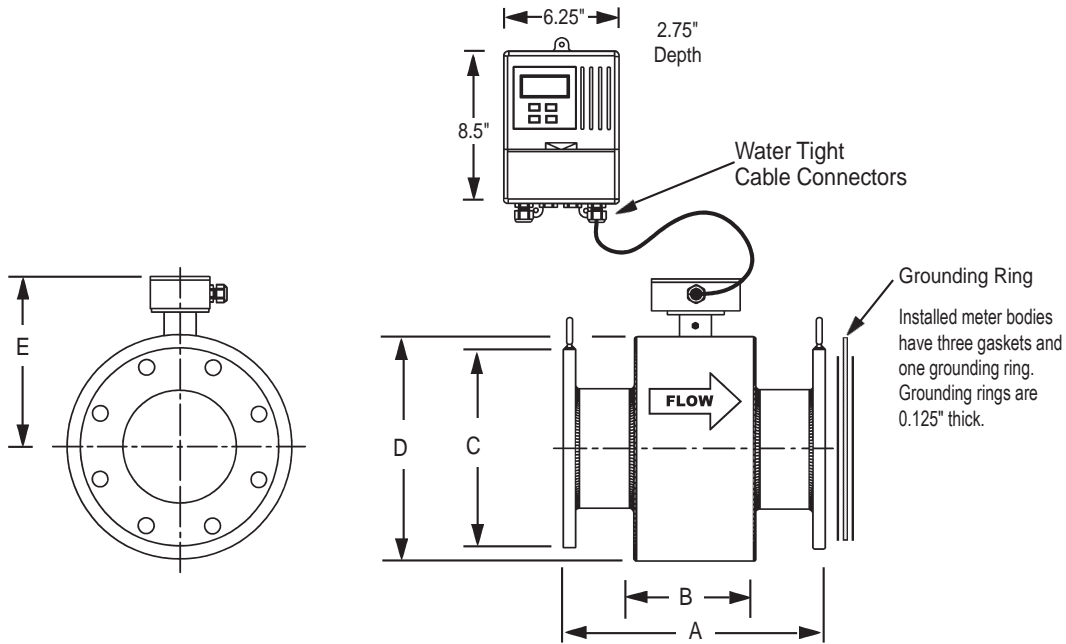
SPECIFICATIONS

WARRANTY	2 Years.
ACCURACY TESTS	3-point wet flow calibration of every complete flow tube with its signal converter. The test facility is certified regularly to an accuracy of plus or minus 0.2% and is traceable to the National Institute of Standards & Technology. If desired, the tests can be witnessed by the customer.
ACCURACY	Plus or minus 0.5% of actual flow.
REPEATABILITY	0.1%
HEAD LOSS	None. No obstruction in line and no moving parts.
PRESSURE RANGE	150 PSI maximum working pressure (UM06) 300 PSI maximum working pressure (UM08)
TEMPERATURE RANGE	Operating: -10 to 77°C (14 to 170°F) Storage: -15 to 77°C (5 to 170°F)
VELOCITY RANGE	.2 to 49 FPS.
BI-DIRECTIONAL FLOW	Forward and reverse flow indication and forward, reverse, net totalization are standard with all meters.
AUTO ZERO	Pulsed DC field excitation principle.
CONDUCTIVITY	5 µs/cm.
LINER	UltraLiner NSF approved, fusion bonded epoxy.
ELECTRODES	Type 316 stainless steel, others optional.
POWER SUPPLY	120 or 240 VAC: negligible effect with power supply variation, 50/60 cycle. 11-40 VDC optional.
ANALOG OUTPUT	Isolated 4-20 mA into 800 ohm load maximum.
FREQUENCY OUTPUT	0-800 Hz frequency and scaled pulse output.
EMPTY PIPE SENSING	Zero return when electrodes are uncovered.
ALARMS	Two programmable alarm outputs.
DIGITAL TOTALIZER	Numbers reading in gallons, cubic feet, litres, cubic meters or imperial gallons. Equipped with electronic resettable totalizer.
DIGITAL RATE INDICATOR	Numbers reading in GPM, CFS, MGD or most common liquid measuring units.

MODEL UM06 AND UM08
ULTRA MAG® ELECTROMAGNETIC FLOW METER

Model UM06: 150 psi FLANGED TUBE METER, SIZES 2" thru 36"

Model UM08: 300 psi FLANGED TUBE METER, SIZES 2" thru 30"



METER & PIPE SIZE	FLOW RANGES, GPM STANDARD .2 TO 49 FPS MIN. - MAX.	DIMENSIONS							ESTIMATED SHIPPING WEIGHT POUNDS	
		A*		B	C		D	E	UM06	UM08
		UM06	UM08		UM06	UM08				
2	2 - 480	11.0	11.0	6.7	6	6.5	7.9	7.95	55	60
3	5 - 1,080	13.4	13.4	6.7	7.5	8.25	9.4	8.7	90	105
4	8 - 1,920	13.4	13.4	6.7	9	10	10.4	9.2	104	150
6	19 - 4,318	14.6	14.6	6.7	11	12.5	12.5	10.25	120	170
8	33 - 7,677	16.1	17.25	9.5	13.5	15	15.7	11.85	195	250
10	52 - 11,995	18.5	18.5	9.5	16	17.5	17.8	12.95	225	290
12	74 - 17,273	19.7	19.7	9.5	19	20.5	19.4	13.7	291	350
14	90 - 23,510	21.7	22.75	12.0	21	23	20.3	14.15	401	480
16	118 - 30,707	23.6	25.25	14.2	23.5	25.5	21.1	14.9	448	500
18	150 - 38,865	23.6	25.25	14.2	25	28	21.1	15.9	550	600
20	185 - 47,980	25.6	28.25	16.2	27.5	30.5	24.8	16.95	588	725
24	268 - 69,092	30.7	35.75	21.7	32	36	29.6	18.8	815	1,430
30	420 - 107,956	35.8	41.75	26.5	38.75	43	35.9	21.95	1,330	2,290
36	609 - 155,457	46.1	46.1	28.2	46	50	42.7	25.35	1,450	2,915

* Laying lengths for meters with ANSI Class 150 Flanges are equal to UM08 laying lengths.

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