

COLD WATER TURBINES



Have a high volume application that requires a high degree of accuracy with low maintenance features? Then Carlon has a family of meters for you. Our cold water turbine meters are available from stock in sizes 2" to 6" with larger sizes available upon request. Carlon turbine meters provide an amazing +/- 2% accuracy at flow rates from 8 GPM all the way up to 2,860 GPM and 235 psi at temperatures from 33 to 120 °F. Our turbine meters are all available in totalizing and electric contact configurations so that you can run your other process equipment (Carlon valves, timers, controllers and chemical pumps) directly from our turbine meter.



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METER SELECTION CHART

METER SIZE	TOTALIZING MODEL	ELECTRIC CONTACT	CONTACT SETTINGS	FLOW CAPACITY	NOMINAL FLOW
2"	C200T	C200EC	10/100 GPC	8-305 GPM	154 GPM
3"	C300T	C300EC	100/1000 GPC	20-660 GPM	330 GPM
4"	C400T	C400EC	100/1000 GPC	30-1100 GPM	506 GPM
6"	C600T	C600EC	100/1000 GPC	45-1870 GPM	1005 GPM
8"	C800T	C800EC	1000/10,000 GPC	60-2860 GPM	1460 GPM
10"	C1000T	C1000EC	1000/10,000 GPC	90-5500 GPM	2750 GPM
12"	C1200T	C1200EC	1000/10,000 GPC	230-7000 GPM	3200 GPM
16"	C1600T	C1600EC	10,000/100,000 GPC	460-11300 GPM	6650 GPM

Nominal Flow: The size of meter selected should be based upon nominal flow, GPM, as opposed to pipe size. For example, if it is determined that nominal flow is 500 GPM, a 4" meter should be selected. Head loss = 1.5 psi at nominal flow. Specify contact settings for EC models. For example, if you require a 2" meter with a 100 GPC setting, order a C200EC-100. Call our factory for available settings in cubic feet and metric applications. 8" and larger meters available upon request.

DIMENSIONS

METER SIZE	MODEL	LENGTH	HEIGHT	WIDTH	WEIGHT
2"	C200T/C200EC	7 7/8"	7 7/8"	6 1/2"	23 LBS
3"	C300T/C300EC	8 7/8"	9 5/8"	7 7/8"	29 LBS
4"	C400T/C400EC	9 7/8"	10 3/16"	8 5/8"	36 LBS
6"	C600T/C600EC	11 7/8"	15 1/4"	11 1/4"	86 LBS
8"	C800T/C800EC	13 7/8"	16 1/8"	13 3/8"	110 LBS
10"	C1000T/C1000EC	18"	16 1/2"	14"	169 LBS
12"	C1200T/C1200EC	20"	18"	16"	372 LBS
16"	C1600T/C1600EC	20"	20"	20"	495 LBS

SPECIFICATIONS

Meter Connection: Carlon supplies flanged connections with all turbine meter orders, through 6".

Pressure Ratings: Do not exceed 235 psi. Optional 375 and 600 psi models available.

Temperature Tolerance: Protect the meter from freezing and from temperatures in excess of 120° F

Accuracy: +/- 2.0% when operating between minimum and maximum flow range.

Current Considerations: Specific to EC models only. Maximum switching voltage is 48v AC/DC.

Maximum current .2 amps, 3 watts.

Installation Instructions:

A. For all types of cold water turbine meters:

1. Flush the line thoroughly after all plumbing changes to prevent contaminants from entering the turbine.
2. Meter may be installed either horizontally or vertically with inlet port facing the water supply line
3. There should be no mechanical stress to the meter when installing. Flange seals are not to protrude into the pipe.
4. To avoid air accumulating, install meter at the lowest possible point.

B. For EC type cold water turbine meters:

1. Connect the terminals on the pulse head to the meter input on the controlling device.
2. Connect your controlling device to the water treatment equipment (pumps, valves, etc.).
Note GPC setting to determine frequency of operation.
3. This meter is not designed for outdoor installation.

Warranty: Carlon warrants its products to be free of defect in material or workmanship for a period of twelve months from the date of purchase. Contact us to obtain a copy of our complete statement of warranty.

Helpful Hints:

1. Install a Carlon slow-closing valve downstream of your water meter. This will eliminate possible meter damage from water hammer.
2. Install a Carlon strainer upstream of your water meter to protect the meter and any other in-line process equipment from foreign materials.
3. Carlon turbine meters have an epoxy coated cast iron main base
4. The straight, unobstructed pipe section in front of the meter should be as follows:
Inlet Path – One Bend = 5 x diameter Valves (check, gate, etc.) 12 x diameter
Two bends or one tee and one bend or bends at random = 25 x diameter