

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 8" with larger sizes available upon request. Carlon turbine meters provide an amazing +/- 2% accuracy at flow rates from 2 GPM all the way up to 2240 GPM and 232 psi at temperatures from 33 to 104 °F. The register is capable of rotating 340 degrees for the ease of reading the meter after installation. 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 RANGE | CONTINUOUS FLOW |
|------------|------------------|------------------|------------------|---------------|-----------------|
| 2" | C200T | C200EC | 10/100 GPC | 2 - 134 GPM | 68 GPM |
| 2 1/2" | C250T | C250EC | 10/100 GPC | 3 - 224 GPM | 112 GPM |
| 3" | C300T | C300EC | 100/1000 GPC | 5 - 358 GPM | 180 GPM |
| 4" | C400T | C400EC | 100/1000 GPC | 8 - 536 GPM | 270 GPM |
| 6" | C600T | C600EC | 100/1000 GPC | 20 - 1340 GPM | 670 GPM |
| 8" | C800T | C800EC | 1000/10,000 GPC | 33 - 2240 GPM | 1120 GPM |

Continuous Flow: The size of meter selected should be based upon continuous flow, GPM, as opposed to pipe size. For example, if it is determined that continuous flow is 170 GPM, a 3" meter should be selected. Head loss = 1.5 psi at continuous flow. Specify contact settings for EC models. For example, if you require a 2" meter with a 100 GPC setting, order a C200EC100. Consult our factory for cubic feet and cubic meter registrations. **Meters larger than 8" are available upon request.**

DIMENSIONS

| METER SIZE | MODEL | LENGTH | HEIGHT | WIDTH | WEIGHT | FLANGE CONNECTIONS (X2) WIDTH X THICKNESS | FLANGE CLASS |
|------------|----------------|---------|---------|---------|---------|--|--------------|
| 2" | C200T / C200EC | 7 7/8" | 10" | 7 1/4" | 27 LBS | 6" X 3/4" | 150 # |
| 2 1/2" | C250T / C250EC | 7 7/8" | 10 1/2" | 7 1/4" | 29 LBS | 7 x 7/8" | 150 # |
| 3" | C300T / C300EC | 9" | 11" | 7 7/8" | 35 LBS | 7 1/2" X 15/16" | 150 # |
| 4" | C400T / C400EC | 10" | 11 1/4" | 8 3/4" | 40 LBS | 9" X 15/16" | 150 # |
| 6" | C600T / C600EC | 11 7/8" | 13 5/8" | 11-1/4" | 92 LBS | 11" X 1" | 150 # |
| 8" | C800T / C800EC | 13 3/4" | 14 3/4" | 13 3/8" | 141 LBS | 13 1/2" X 1 1/8" | 150 # |

SPECIFICATIONS

Meter Connection: Carlon supplies flanged connections with all turbine meter orders.

Temperature Range: Protect the meter from freezing and from temperatures in excess of 104° F

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

Pressure Rating: 15 to 232 psi.

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

Additional Information: If you require additional information, visit us online at www.carlonmeter.com