



**NEPTUNE**  
TECHNOLOGY GROUP

## FLOSEARCH<sup>®</sup> Transmitter



### DESCRIPTION

The FLOSEARCH<sup>®</sup> Transmitter is a “universal” design for use on all Neptune meters with a bayonet register mount. As water flows through the meter, the Transmitter produced a dry contact output from a reed switch that toggles between its open and closed positions under the force of a rotating magnet. There is no gearing in the Transmitter to adjust its resolution (number of contacts per unit of volume) for each meter type. The Transmitter simply produces 4 contacts per revolution of the drive magnet of the attached meter. As a result, the Transmitter resolution varies with each meter size. See chart on back.

### FEATURES

- Reed Switch Output
- No Power Needed
- High Resolution
- Submersible

### APPLICATIONS

- SCADA
- Telemetry
- Resource Management
- Demand Monitoring
- Flow Profiling
- Hydraulic Modeling
- Cost of Services Studies
- Water Audits



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## Programing Data - Contact Chart

<b>T-10 Meters</b>	Contacts Per Gallon	Contacts Per Cubic Foot	Contacts per Minute @ Max Flow	Max Hz
5/8"	231.36	1730.7	4627.2 (20 GPM)	77.12*
3/4"	129.23	966.74	3876.9 (30 GPM)	64.62*
1"	60.286	450.97	3014.3 (50 GPM)	50.24*
1-1/2"	26.736	200	2673.6 (100 GPM)	44.56*
2"	15	112.21	2400 (160 GPM)	40*
<b>HP Turbine (HPT)</b>	Contacts Per Gallon	Contacts Per Cubic Foot	Contacts per Minute @ Max Flow	Max Hz
1-1/2"	0.6095	4.5594	97.52 (160 GPM)	1.62
2"	0.6095	4.5594	121.9 (200 GPM)	2.04
3"	1.12	8.3782	504 (450 GPM)	8.4
4"	0.7556	5.6523	906.72 (1200 GPM)	15.12*
6"	0.0727	0.5438	181.75 (2500 GPM)	3.03
8"	0.0756	0.5655	302.4 (4000 GPM)	5.04
10"	0.0756	0.5655	491.4 (6500 GPM)	8.19
<b>Tru/Flo Compound</b>	Contacts Per Gallon	Contacts Per Cubic Foot	Contacts per Minute @ Max Flow	Max Hz
2" Turbine (High Flow)	0.6095	4.5594	121.9 (200 GPM)	1.62
T-10 (Low Flow)	231.36	1730.7	4627.2 (20 GPM)	77.12*
3" Turbine (High Flow)	0.289	2.1619	130.05 (450 GPM)	2.17
T-10 (Low Flow)	231.36	1730.7	4627.2 (20 GPM)	77.12*
4" Turbine (High Flow)	0.159	1.1894	159 (1000 GPM)	2.65
T-10 (Low Flow)	129.23	966.74	3876.9 (30 GPM)	64.62*
6" Turbine (High Flow)	0.0464	0.3471	92.8 (2000 GPM)	1.55
T-10 (Low Flow)	60.286	450.97	3014.3 (50 GPM)	50.24*
<i>6" x 8" Tru/Flo use the same figures as the 6" Tru/Flo above</i>				
<b>HP Protectus (HPT P3)</b>	Contacts Per Gallon	Contacts Per Cubic Foot	Contacts per Minute @ Max Flow	Max Hz
4" Turbine (High Flow)	0.7556	5.6523	906.72 (1200 GPM)	15.12*
T-10 (Bypass Meter)	60.286	450.97	3014.3 (50 GPM)	50.24*
6" Turbine (High Flow)	0.0727	0.5438	181.75 (2500 GPM)	3.03
T-10 (Bypass Meter)	26.736	200	2673.6 (100 GPM)	44.56*
8" Turbine (High Flow)	0.061	0.4563	244 (4000 GPM)	4.07
T-10 (Bypass Meter)	15	112.21	2400 (160 GPM)	40*
10" Turbine (High Flow)	0.0533	0.3987	346.45 (6500 GPM)	5.78
T-10 (Bypass Meter)	15	112.21	2400 (160 GPM)	40*

The contact output from a [FLOSEARCH Transmitter](#) is typically used by data logging devices and other controllers that have an "active-Low" TTL input with the following input specifications:

- Open-circuit voltage = +5VDC
- Contact current = 10uA
- Minimum Pulse Width = 7mS
- Contact bounce filter = 3mS
- Maximum input frequency = 100Hz

The [FLOSEARCH Transmitter](#) is specifically designed to comply with the above input specifications. Many other devices with similar input specifications may also be compatible however Neptune cannot guarantee compatibility with any device other than the FLOSEARCH II Recorder, aka Master-Meter Model 100ELS.

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For devices that can't accept dry contact inputs above 10 pulses per second (10Hz) we can offer a high speed pulse divider. Please contact [Ti-SALES](#) at [800-225-4616](tel:800-225-4616) for more information on this optional product.