



Traser-O-Meter (TOM)

Cooling Tower and Boiler Systems Monitoring & CONTROL

Part I

-By Deepak Chopra

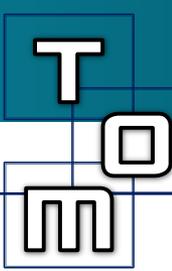
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Traser-O-Meter (TOM)



Cooling Tower and Boiler Systems Monitoring and CONTROL

Traser-O-Meters (**TOM**) are commonly used in **I-SOFT** dosing control systems for Cooling Tower and Boiler System applications.



Traser™ dyes are added to the **I-SOFT** formulations and their levels provide an indication as to whether the **I-SOFT** dosing is in the desired range. Traser-O-Meters can also be used for tracking product quality through a distribution system to ensure dilution does not occur. Using Traser-O-Meter for

Cooling Towers, Boilers, Heat Exchangers, Reverse Osmosis

and **Many Other Applications**

Inline Traser-O-Meter (I-TOM)

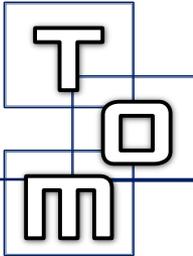
To Monitor and Control Industrial Processes

It is the easiest way to improve Quality and Service

Increase efficiency and reduce operating costs

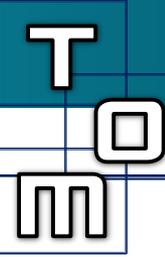
Product Highlights(I-TOM) :

- ❑ TOM Inline meter is low cost
- ❑ Accurate In-Line measurement of I-SOFT
- ❑ Compact package for easy system integration
- ❑ Install into your process flow with a PVC Tee
- ❑ 4-20 mA output allows integration with existing control units
- ❑ Rugged solid state design for 24x7 operation with simple maintenance

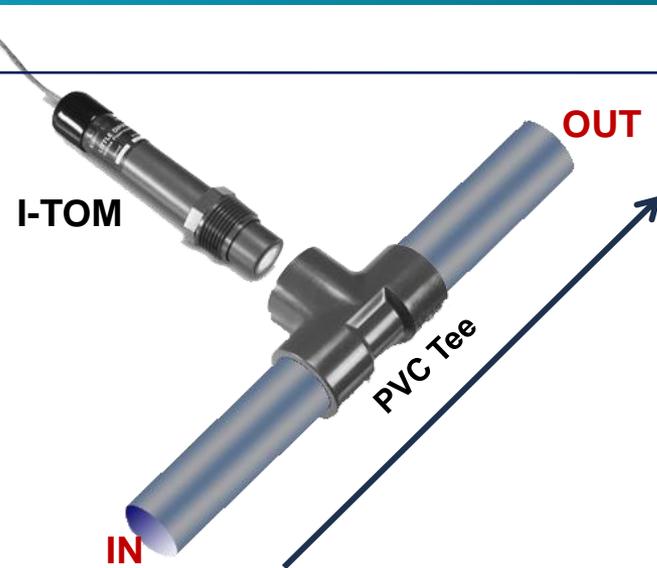


TOM NEVER GET TIRED!

Inline Traser-O-Meter (I-TOM)



I-TOM is a registered trade name of Watch® Water Technologies. This Intelligent Traser-O-Meter is a low cost, compact design for optical measurement of **OPTI-TRASER™** **Dosing chemicals.**



I-TOM is designed for monitoring and/or controlling the precision dosing of **I-SOFT** in all Cooling Towers, Chillers, Heat Exchangers, Boilers, Heating systems and Reverse Osmosis applications. Integration of **I-TOM** into your application/automation system enables absolute correct dosing of chemicals to be implemented and confirmed. The **I-TOM** comes in a durable rugged package to work as a 24x7 Device providing maximum performance, minimum maintenance and solid state reliability.

Inline Traser-O-Meter (I-TOM)

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Technical Data (to request more information [click here](#))

I-TOM Performance Specifications

Dynamic Range	< 1 to 300 ppb typical for PTSA
	< 1 to 100 ppb typical for fluorescein
Sensitivity	< 1 ppb typical

I-TOM Operation Specifications

Power Draw	0.96 W @ 12 VDC (1.2 W maximum)
Input Voltage	8-30 VDC
Signal Output	4-20 mA
Warm up time:	5 seconds

I-TOM Physical Specifications

Material:	PVC – Type I, machined plastic		
Weight:	95	g	(3.35 ounces)
Length:	15.04	cm	(5.92 inches)
Housing Diameter:	2.67	cm	(1.05 inches)
Maximum Diameter:	3.91	cm	(1.54 inches)
Temperature:	0 – 50	°C	(32 - 122 °F)

Mounting Tee Physical Specifications

Material:	PVC – Type I, molded plastic		
Dynamic Pressure:	7	bar	(100 psi)
Threading (NPT):	2.54	cm	(1 inch)
Length:	8.74	cm	(3.44 inches)



WATCHER[®]
WATCH WATER

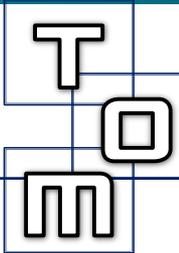
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Handheld intelligent Traser-O-Meter (Hi-TOM)

TOM is a Low Cost Service Guy!

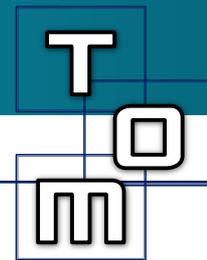
Product Highlights (Hi-TOM):

- ❑ **Hi-TOM** is Dustproof and Watertight
- ❑ It comes in a highly durable case
- ❑ Small size easily fits in a shirt or jacket's pocket
- ❑ Operates on 4 AAA batteries for >1000 measurements per set
- ❑ Dual channel allow for quick toggling between two applications
- ❑ Single-point plus blank calibration
- ❑ 12 bit resolutions (high precision)
- ❑ 5 seconds warm up
- ❑ Low maintenance field Traser-O-Meter



TOM is the BEST FRIEND for all Operators!

Handheld Intelligent Traser-O-Meter (Hi-TOM)



The perfect tool for fast system verification!

Hi-TOM is a registered trade name of Watch® Water Technologies. Handheld Traser-O-Meter is a small, lightweight, highly durable offline measuring device that is ideal for **Quick Measurements** in the Water Treatment field. Dual channel capability enables measurement for Cooling Towers, Chillers, Boilers, Heat Exchangers, Heating Systems and Reverse Osmosis applications. Watch® **Hi-TOM** is simple to operate.

Technical Data (Hi-TOM)

Linear Range:

0-400 ppb typical for fluorescein

0-1000 ppb typical for PTSA

Sensitivity:

<1ppb typical for fluorescein and PTSA

Temperature: 5° - 40°C (41° - 104°F)

Warm-up Time: 5 seconds

Case: IP 67 standard;
dustproof/waterproof
4 AAA batteries

Power:

Light Source: LED

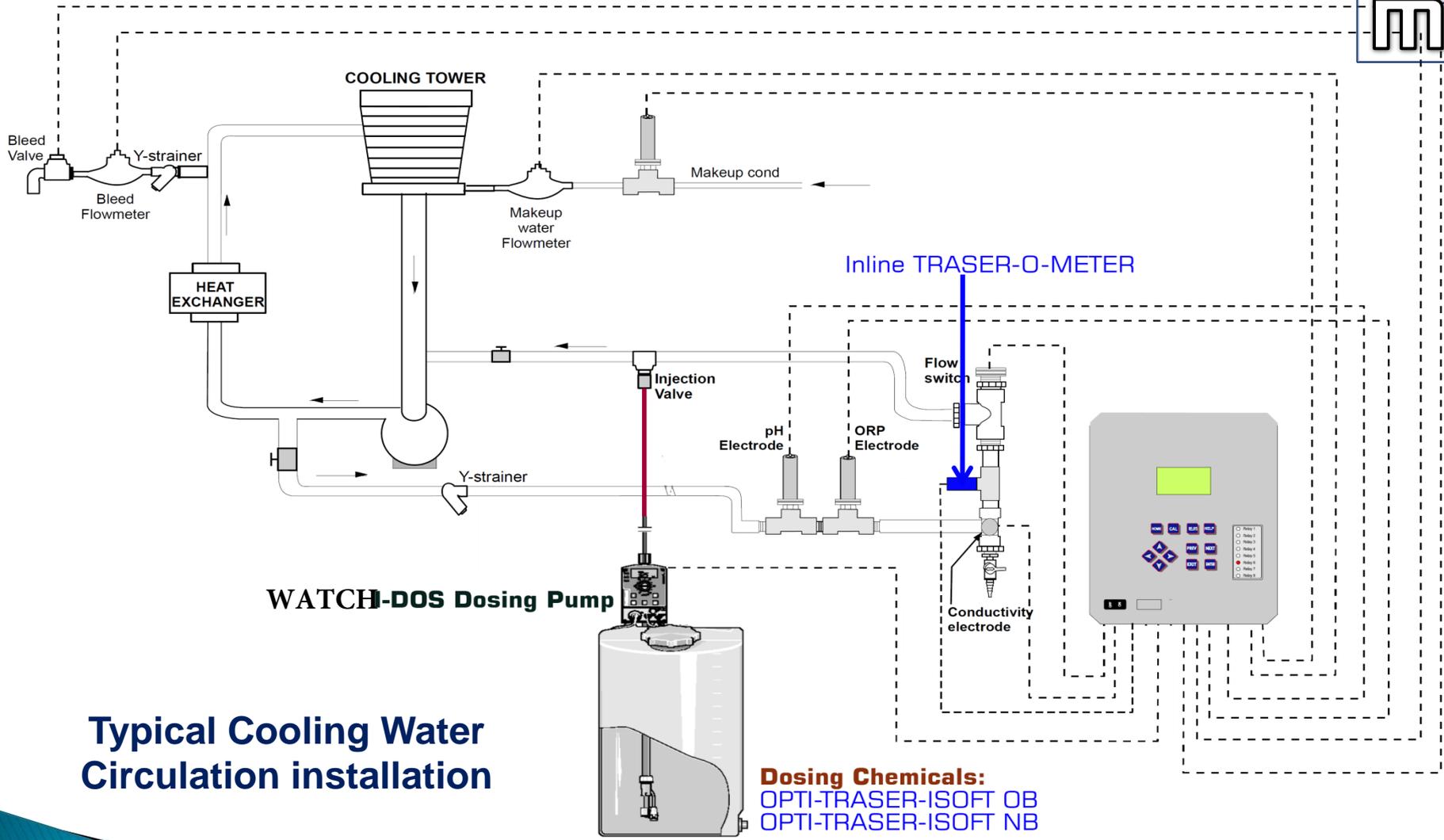
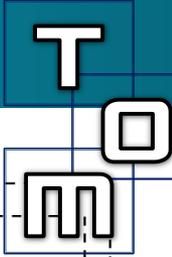
Detector: Photodiode

Weight: 0.4 kg ; 13.9 oz

Size: 4.45 cm x 8.9 cm x 18.4 cm
1.75" x 3.5" x 7.25"

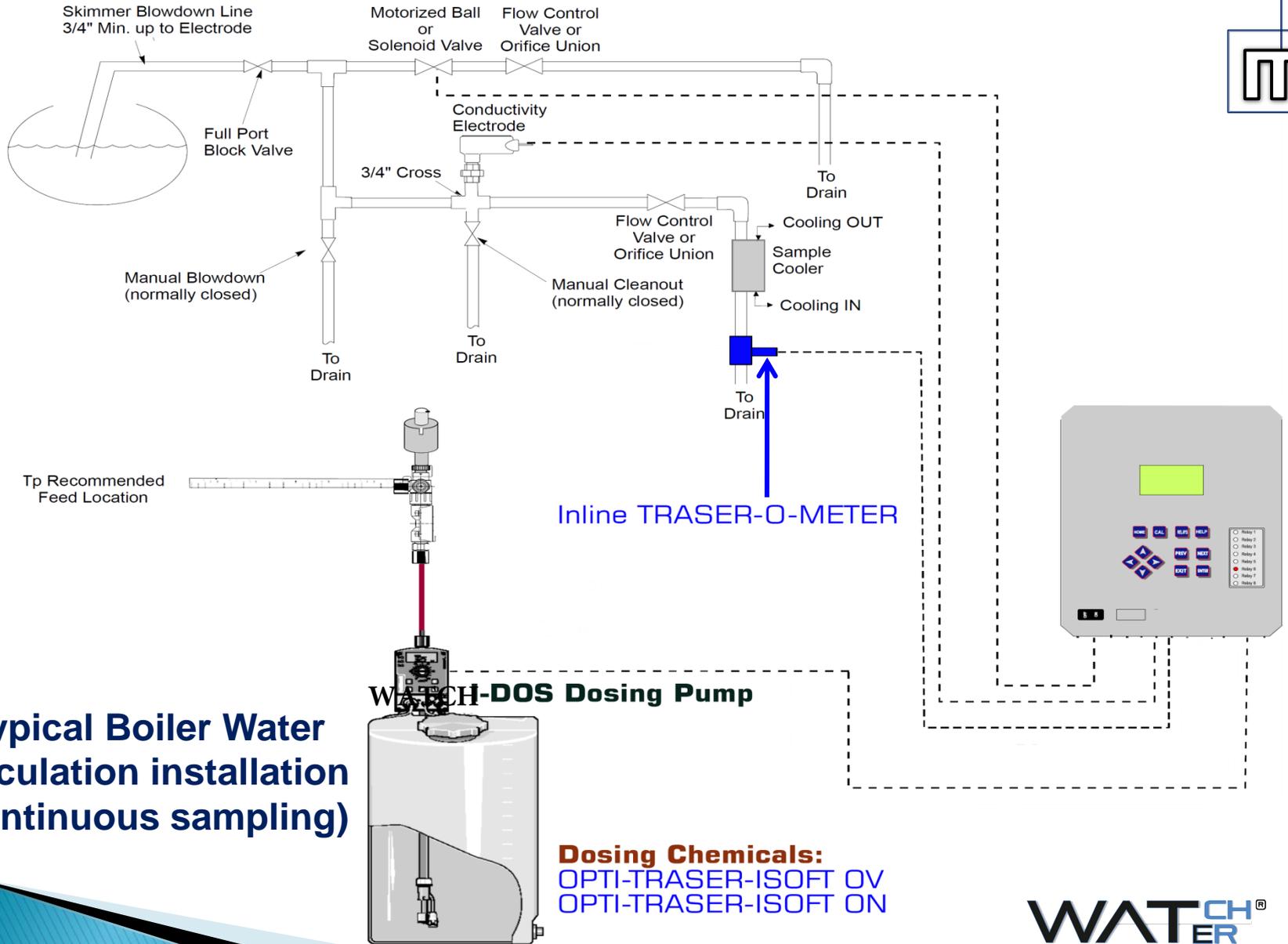
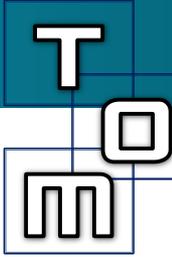
(to request more information [click here](#))

Cooling Tower Installation



Typical Cooling Water Circulation installation

Boiler Circulation Installation

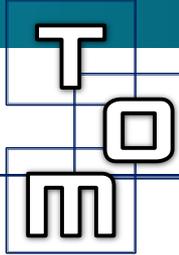


Typical Boiler Water Circulation installation (continuous sampling)

Dosing Chemicals:
OPTI-TRASER-ISOFT OV
OPTI-TRASER-ISOFT ON



OPTI – INSTANT - TECHNOLOGY



The Perfect Watch® formulas for

*Superior Value = Increased Sales and
Profitability*

Watch® Water Technology makes the 21st century water treatment products available to our business partners. The experience of our 35 years of history started with making chemicals for water treatment industry, our relationships with our supplies, and our understanding of your needs in **SUPERIOR TECHNOLOGY OPTIONS.**

Coming Next: Presentation on OPTI-INSTANT-ISOFT (Part II)

Thanks for reading!