

## WATER-IN-OIL (Online Water Monitoring) ZT-100

CE Compliant IP66 Rated  
suitable for strenuous  
Harsh environment

Loop Powered, 2-Wire  
Fast Response, 1 Sec

Size available  
from 1" to 8"

Threaded NPT, BSP,  
or ANSI, JIS or DIN Flanges

Field Adjustable Range  
Setting available

All 316 Stainless Steel  
Construction



### Specific Features

- ❖ Fast Response Time of 1 Sec
- ❖ Measuring Water of **ALL** Forms
  - Saturated
  - Emulsified
  - Free Water
- ❖ Loop-Powered 2 Wire, 4...20mA
- ❖ Temperature Compensated
- ❖ Flexible Wide Range In Sizes  
and Measurements
- ❖ Continuous Online Monitoring

#### APPLICABLE WITH

Diesel Fuel  
Lubrication Oil  
Hydraulic Oil  
Vegetable Oil  
Fuel Oil  
Petrochemicals  
Etc...  
... And Many Other  
Hydrocarbons

#### INDUSTRIES

- Marine
- Power Plants
- Refineries
- Petrol Chemicals
- Steel Mills
- Paper Mills
- Mining
- Oil Purification
- Palm Oil
- Transfer &  
Loading Facilities
- Oil Storage

#### Introduction

Water is generally referred as a contaminant when suspended in oils. Its destructive effects in applications can reach or exceed that of any contamination, depending on various conditions. Like particles or any contaminants, vigilant monitoring must be practiced and reported once entry of water is found or when it reaches its maximum warning limits to minimize its accumulation in the oil used and its damage to the equipments and their respective components.

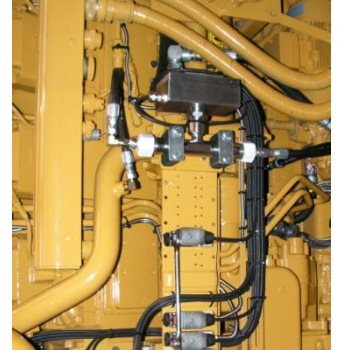
Revenue recovery from destruction of equipments, replacement of spares from wear rates, oxidation, corrosion, additives depletion, reduced in lubricating characteristic (lubricating film thickness and load-carrying ability), etc... can be maximized if proper monitoring is available.

Zelentech **ZT-100** offers real-time, fast response monitoring suitable for most common oil types and applications such as engine or generator fuel and lubrication, separators, purifiers, various filtration systems, gear boxes, thrusters, quench oil, stabilizers, any many more. It can also be integrated to systems and used as a control device. This instrument is developed to accurately measure the content of water in ALL forms found in oil to create awareness for preventive measures to take place.

The ZT-100 is temperature compensated and is loop-powered (2 Wire) operated with output in either PPM (parts per million) or percentages (%) of value. The advance microprocessor enables fast, reliable and drift-free monitoring unlike traditional capacitive devices.

## General Specification

Pipe Size	1" ... up to 8"
Connection Type	Threaded (NPT/BSP), Flanged ANSI/JIS/DIN
Water Content Range	Low Range (0...25% / 0...250,000ppm) High Range (0...100% / 0... 1,000,000ppm) – <i>Sweet water</i>
Response Time	1 second
Sensitivity	0.003% (30PPM)
Repeatability	0.1%
Output	4...20mA
Power Supply	24 VDC (Loop Powered – 2 Wire)
Ingress Protection	IP66
Temperature	150°C (300°F)
Materials	316 Stainless Steel



### Why Zelentech?

Zelentech Pte Ltd holds expertise with fluid measurements backed with dedication from experienced engineers who are both well-trained on applications and processes approach to provide you with the necessary consultation and support.

For any further inquires, please contact your nearest Zelentech representative

**Manufacturer**  
**Zelentech Pte Ltd**  
55 Serangoon North Ave 4  
S9 #04-05  
Singapore 555859  
Email: [sales@zelentech.co](mailto:sales@zelentech.co)

**Representative**