

HOYAN WIO Series

aw water activity

4~20mA

Modbus RTU

Real-time water-in-oil (water activity, aw) monitoring

IN-LINE WATER ACTIVITY MONITORING · LUBRICATION / HYDRAULIC / INSULATING OIL

Product Highlights

KEY FEATURES

REAL-TIME

Water activity, live and online

No sampling, no lab wait — instant warning on deviation

RUGGED

Stable in harsh environments

Oil- and pressure-resistant; accuracy holds over years

CALIBRATED

A rigorous calibration process

More accurate data, easier service and maintenance

MODULAR

Sensor replaceable while running

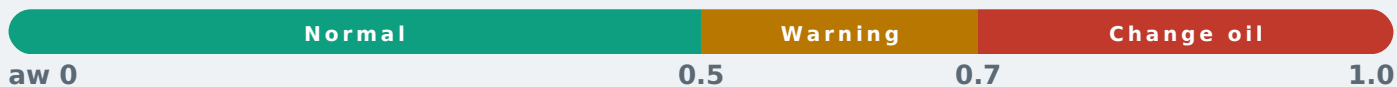
Fits any pipe size — no shutdown required



WIO-23LY-DBOX + POWER BOX · in-situ tank installation

Reading aw | Three-colour alert bands

WATER ACTIVITY · aw 0 - 1.0



aw 0 ~ 0.5

Green Normal

Water fully dissolved, far from saturation

Action: routine inspection only

aw 0.5 ~ 0.7

Amber Warning

Water is building up — find the ingress point

Action: shorten the oil-change interval

aw 0.7 ~ 1.0

Red Change oil

Near saturation; free water may separate

Action: dewater or change the oil now

Pre-alarm PAV aw > 0.5 | Main alarm MAV aw > 0.9 | Free water aw = 1.0

aw applies across oil types; ppm must be converted per oil

Applications | Oil types

APPLICATION AREAS · OIL TYPES

Applications

Hydraulics Lube stations Gearboxes Bearings
Marine engines Rolling mills Wind turbines Transformers

Oil types

Hydraulic Lubricating Gear Turbine
Transformer Rust-preventive Fuel / diesel

Installations

INSTALLATION CASES

Steel mill · lube-oil panel

WIO sensors + central touch display Vessel · lube-oil monitoring

In-line sensing + engine-room HMI



Full datasheets & demo units on request Jason Liao · +886-918181975

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