



# PAJ GROUP

DEVELOPMENT AND MANUFACTURING FOR DEMANDING COMPANIES

www.PAJ.dk

Rev. 1.11

## WATER IN OIL SENSOR

The WIO-Sensor technology is a secure monitoring system of water content in

**Lubrication oil,**

**Gear box oil,**

**Diesel oil,**

**Hydraulic oil**

**Transformer oil.**

With the standard fitting the WIO sensor can be quickly installed in to your system and easy to use. Simplification of the measured values by providing the display and supporting the measured data on the analog output, also internal relay outputs for evaluation/processing of the alarm conditions is the right decision for use of the WIO sensor.

### WIO Standard



### WIO Ball Valve



## WIO200A

- 24VDC±10% power supply
- 2 x NC relay outputs 60VAC/1A
- 1 x galvanic isolated analog output 4 - 20mA
- fixed alarm points HA-0.50 aw, HHA 0.90 aw
- manual test function

## WIO300

- 24VDC±10% power supply
- 2 x NC relay outputs 60VAC/1A
- 2 x galvanic isolated analog output 4 - 20mA
- RS232 modbus user interface
- adjustable alarm points for HA and HHA (aw)
- manual test function
- service led indication

## WIO400

- 24VDC±10% power supply
- 2 x NC relay outputs 60VAC/1A
- 2 x galvanic isolated analog output 4 - 20mA
- RS485 modbus user interface
- adjustable alarm points for HA and HHA (aw)
- manual test function
- service led indication

## WIO500

- 24VDC±10% power supply
- 2 x NC relay outputs 60VAC/1A
- 2 x galvanic isolated analog output 4 - 20mA
- CANopen user interface
- adjustable alarm points for HA and HHA (aw)
- manual test function
- service led indication

### WIO300

### WIO400

### WIO500

### WIO200A



- 24VDC±10% power supply
- 2 x NC relay outputs 250VAC/2A
- 2 x galvanic isolated analog output 4 - 20mA
- RS232/RS485/CANopen user interface
- adjustable alarm points for HA and HHA (aw/ppm) via com.-bus
- 4 digit indication display for aw/ppm
- 4 digit indication display for °C/F
- LED indication for H/HH-alarm
- Push button function for H/HH alarm
- Acoustic indication for H/HH alarm



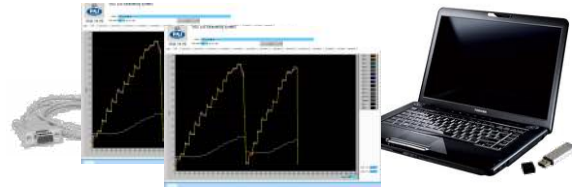
- 24VDC±10% power supply
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- 1 x galvanic isolated analog output 4 - 20mA
- 4 digit indication display for aw/ppm
- LED indication for H/HH-alarm
- Push button function for H/HH alarm
- Acoustic indication for H/HH alarm

## TERMINAL BOX



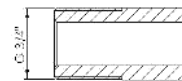
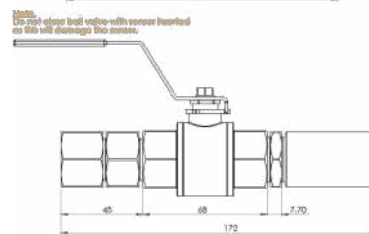
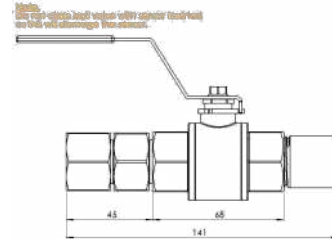
## WIO-Software

- settings of HA & HHA alarm points
- monitoring of aW
- monitoring of the temperature
- status indication of the service intervals
- logfile of the measured data
- Easy to use on the USB-Stick



## Ball Valve 16mm

- Complete solution for WIO-Sensor with external thread
- Complete solution for WIO-Sensor with internal thread
- Easy to install and to use
- Fixed mounting of WIO-Sensor
- Able to expand with ISO228/1 G3/4 adapter



## Pipe unit

- Special adapter unit for WIO-Sensors
- Fix mounting and simple solution

## Wire types

- Standard 2m
- Can also be ordered as 15m, 20m, 30m or 50m.

## Product list

MWS	Moisture Water Sensor					
	LUB	Lubrication Oil				
	GEB	Gear Box Oil				
	DIE	Diesel Oil				
	HYD	Hydraulic Oil				
	TRA	Transformer Oil				
		1	Standard sensor pipe			
		2	Sensor Ball valve pipe			
			A	No user interface		
			B	RS232 Modbus user interface		
			C	RS485 Modbus user interface		
			D	CanOpen user interface		
			50	Standard H-Alarm 0,50 aW		
			xx	xx must be from 10 to 80 (0,10 – 0,80 aW)		
			90	Standard HH-Alarm 0,90 aW		
			xx	xx must be from 20 to 90 (0,20 – 0,90 aW)		
MWS	LUB	1	B	50	90	This is an order example of standard WIO 200A sensor



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TER	Terminal box						
	A B C D	Type is dependent on the WIO you have			MWS-xxx-x-A-xx-xx MWS-xxx-x-B-xx-xx MWS-xxx-x-C-xx-xx MWS-xxx-x-D-xx-xx		
		0 1	No button 2 button with LED indicator for HA & HHA with acoustic alarm				
		0 1 2 3 4 5 6	No display 1 Display to indicate aW 1 Display to indicate PPM 2 display to indicate aW and temperature in °C 2 display to indicate PPM and temperature in °C 2 display to indicate aW and temperature in °F 2 display to indicate PPM and temperature in °F				
			A B C D	Standard 8 pin female & male connector Gland PG9 Gland PG11 Gland PG13,5			
			B C D E	Gland PG9 Gland PG11 Gland PG13,5 Gland PG16			
				02 15 20 30 50	Standard 2 m cable with female & male connector 2 pieces 15 m cable with female & male connector 2 pieces 20 m cable with female & male connector 2 pieces 30 m cable with female & male connector 2 pieces 50 m cable with female & male connector 2 pieces		
TER	B	1	3	A	B	02	This is an order example of WIO terminal box