HYDROTECHNIK
UK LIMITED

WATCHLOG
USB
USB PRESSURE & TEMPERATURE SENSORS

WLUSB

- Dual pressure & temperature output from each sensor

- View & record record up to 20 times per second per sensor

- 25 bar, 160 bar, 400 bar & 700 bar sensors available from stock.

- Connect, view & record up to 8 sensors at once using standard USB hubs.

SECTORS
Industrial Hydraulics
Food & Beverage
Process
Pulp & paper
Mobile hydraulics

Every sensor comes with our Watchlog USB software for Windows® Desktop PCs, laptops & Tablets.

WATCHLOG USB
USB PRESSURE & TEMPERATURE SENSORS

Our Watchlog USB pressure and temperature sensor system is a quick and simple cost effective way to view and datalog pressure and temperature data in real time.

Sensors come in four standard pressure ranges from 0...25 bar up to 0...700 bar and also incorporate a temperature sensor with a measuring range of -40…85°C.

The cable comes at a standard length of 5m. 4-way USB connection hubs are available for purchase.

The free Watchlog USB software is capable of monitoring 8 sensors at one time and taking readings up to 20 times per second for each sensor.

The software features manual or timed recording options as well as visual alarms and display.

Data can be viewed in graphical or numerical format and recorded data can be exported in PDF or CSV format. During tests graphical data can be interrogated by zooming and also adding annotations.

WLUSB CONNECTIVITY OVERVIEW

WATCHLOG SOFTWARE AUTOMATICALLY DETECTS ANY CONNECTED SENSORS.

WLUSB-HUB4 4-WAY USB SENSOR CONNECTION HUB.

Connect sensors directly to a Windows PC / Tablet or use standard USB hubs to connect up to 8 sensors.

WATCHLOG SOFTWARE IS SUPPLIED FREE OF CHARGE WITH ALL SENSORS.

SIMULTANEOUS PRESSURE AND TEMPERATURE READINGS WITH EDITABLE ALARMS AND COLOURS.

Watchlog USB Pressure & Temperature sensors can be mounted to Minimess test points, enabling fitting and removal under full system pressure (up to 630 bar).

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TECHNICAL SPECIFICATIONS

Available sensor ranges

Pressure range *	Over pressure	Burst pressure
0…25 bar	100 bar	150 bar
0…160 bar	400 bar	600 bar
0…400 bar	750 bar	840 bar
0…700 bar	1200 bar	1500 bar

* Other pressure ranges available on request
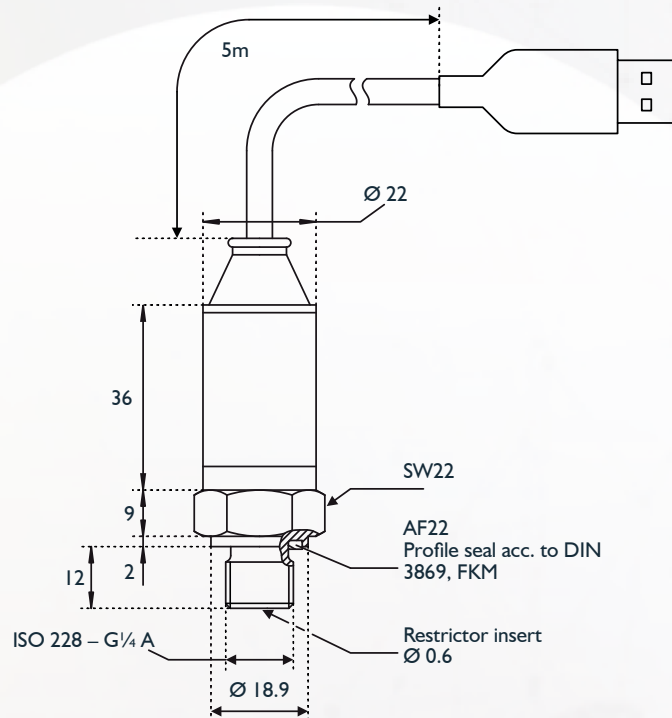
Specifications for all pressure ranges

Specification	Detail
Pressure type	Gauge
Output signal	Specific USB command set, acc. SCPI
Total error (RT)	±0.5% FS
Total error (-10°…+60°)	±1.5% FS
Power supply (U_S)	5V
Current supply	500mA
Response time	50ms
Isolation resistivity to case	100MΩ
Operating temperature	-40…+85°C
Storage temperature	-40…+85°C
Weight	8…120g
Mounting direction	All directions
Wetted components	17-4PH stainless steel. No O-rings, no silicone oil.
Measuring volume	$<1mm^3$
Pressure port	G1/4A Form E, HEX22
Electrical connection	Cable connector with USB Type A connector

WATCHLOG USB
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DRAWING

5m

Ø 22

36

9

12   2

SW22

AF22
Profile seal acc. to DIN
3869, FKM

ISO 228 – G¼ A

Restrictor insert
Ø 0.6

Ø 18.9

ORDER CODES

Watchlog USB pressure & temperature sensor

WLUSB - XXXX

*Replace **XXXX** with below code
for the required pressure range* *
0025 = 0…25 bar
0160 = 0…160 bar
0400 = 0…400 bar
0700 = 0…700 bar

* Other pressure ranges available on request

Watchlog USB sensor accessories

WLUSB-HUB4

4-way USB connection hub

WLUSB-TAB10

Windows 10 smart tablet, 10"
touchscreen, 64Gb memory, pre-
loaded with Watchlog USB software

WLUSB-TAB10KEY

Detachable keyboard for Windows
10 smart tablet

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WATCHLOG REPRESENTS A HUGE STEP IN THE PROVISION OF A SECURE POINT TO POINT USB AND WIRELESS TRANSMISSION OF SENSOR SIGNALS.

Watchlog USB is a new generation of sensors and datalogging solutions from Hydrotechnik UK using our Watchlog USB dual pressure & temperature with transmission rates of up to 500 times per second.

Watchlog Bluetooth® is a new generation of short range wireless measurement of pressures, designed to work with iOS and Android mobile devices as well as Windows tablets and PC's.

The **Watchlog Wireless** sensor system is our short to medium (up to 1.6km) range wireless monitoring option for up to 60 sensors at one time. Watchlog wireless is designed for pressure, temperature, level or flow sensors in applications where cabled sensors or power are not possible.

Watchlog Pro & Watchlog Vision has been developed to support wireless transmission of a huge range of sensors and signals over longer distances (up to 5km). Up to 60 sensors can transmit to one receiver which includes oil life, pressure/differential pressure, level and temperature, flow, force, CANbus and much more, for local, remote and cloud management.

CONTACT

Call us on 0800 068 4134 for more information and to obtain our other brochures:

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Discover more at www.hydrotechnik.co.uk