HYDROTECHNIK
UK LIMITED

Est. 1990

WATCHLOG
WIRELESS
WIRELESS TEMPERATURE SENSOR

WLWT

Powered by 2x AA batteries up to
5 years battery life

Powered by 2x D batteries with
5...18Vdc externally powered option

Transmit wireless temperature readings
up to 1.6km distance and up to
10 times a second

Automatic sleep mode when not in use
to save battery life

Direct or remote transmitter mounting options

SECTORS

Plant Engineering
Industrial machinery
Agricultural machinery
Hydraulics
Automotive

**The WLWT range of wireless temperature
sensors allow temperature readings to be
transmitted wirelessly up to 1.6km with no
need for external power.**

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WATCHLOG WIRELESS
WLWT TEMPERATURE SENSOR

The WLWT wireless temperature sensors are designed for use in applications where external power is not available or where cabled sensors are not suitable such as in rotating or moving machinery.

The high-accuracy, low-noise measurement electronics deliver high-resolution, low-drift results. The readings can be transmitted at rates of up to 10 per second all the way up to 1 per minute.

The wireless sensor transmitter module provides exceptional performance in the field with a potential battery life of up to 5 years, by 'powering between transmissions or 'powering off' completely.

Please contact us to discuss your requirements and receive an estimated battery life calculation. The wireless sensor transmitter modules come configured as standard with a 10ms sample every 1 second which can be adjusted by customers by the free toolkit software or can be supplied pre-programmed as required.

SENSORS CAN BE CONFIGURED WITH THE INCLUDED SOFTWARE TOOLKIT

WLWT ASSEMBLY OVERVIEW

Powered by 2 'AA' cell batteries

Optional 2x D battery powered or 5...18Vdc externally powered option

Watchlog transmitters can be provided as compact fixed units or with cables which allow for remote placement of the transmitter.

Power LED

Environmentally sealed to IP67

Watchlog display & logging software is supplied free of charge with all sensors.

WATCHLOG WIRELESS
WLWT TEMPERATURE SENSOR

TECHNICAL SPECIFICATIONS

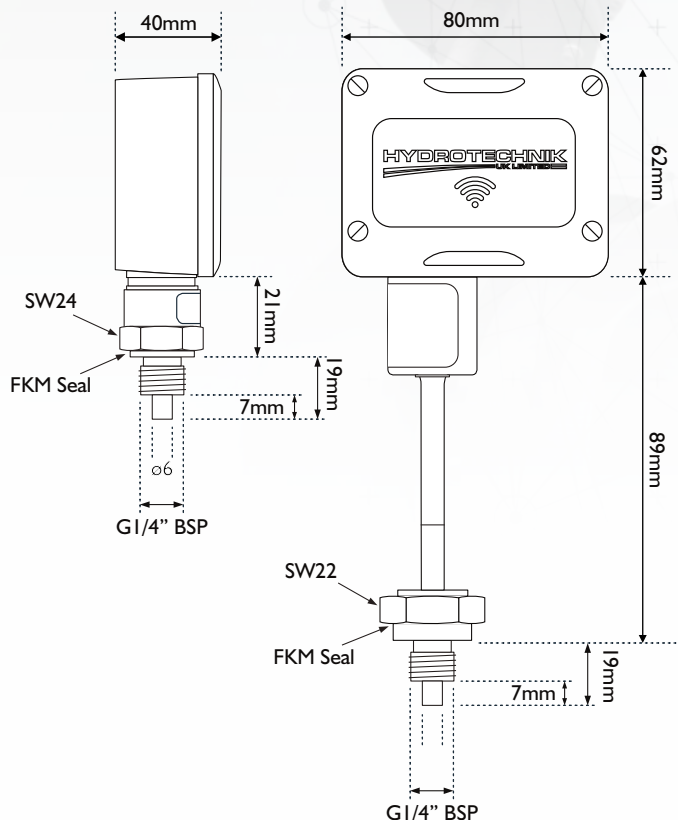| Specification	Detail
Wireless range (maximum)	800 meters
Wireless range (maximum with HT-AR extender)	1600 meters
Transmission rate	200ms...60s
Power supply	3 Vdc (2xAA battery, 2xD battery or 5...18Vdc external powered options)
Battery life	Up to 5 years
Wireless transmitter enclosure operating temperature	-20...100°C or -50...+200°C
Temperature sensor media temperature	-40...125°C
Maximum pressure	400 bar
Temperature sensor ambient temperature	125°C*
Measuring element	PT100, Class B, 4-wire
Temperature sensor wetted parts	SS316L
IP rating	IP67

* Depending on version

DRAWING

WLWT-AA Transmitter

510 model   **520 model**

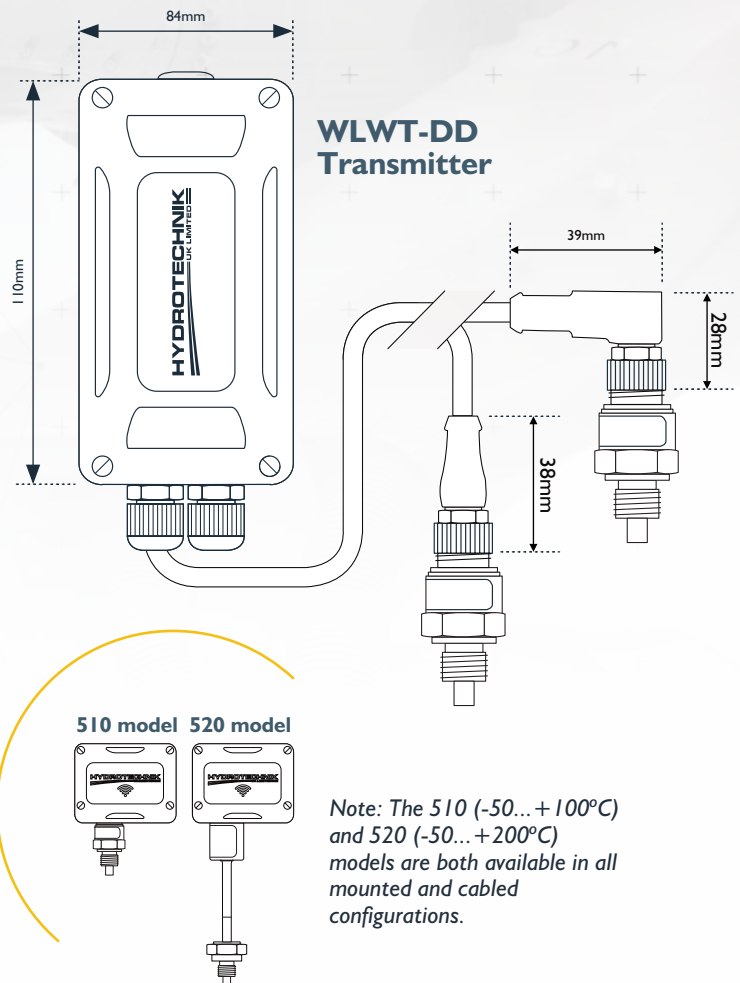**WLWT-DD Transmitter**

510 model   520 model

Note: The 510 (-50...+100ºC) and 520 (-50...+200ºC) models are both available in all mounted and cabled configurations.

WATCHLOG WIRELESS
WLWT TEMPERATURE SENSOR

ORDER CODES

WLWT - ** - XXX - Y Z.Z

Replace ** with below code for the required transmitter type

AA = 2x AA battery powered

DD = 2x D battery powered or 5...18Vdc externally powered. Requires cabling option (can not be sensor mounted)

Other lengths available on request

Replace **XXX** with below code for the required specification
510 = -50...100°C (400 bar max)
520 = -50...200°C (400 bar max)

630 bar version available on request

Replace **Y** with below code for the required Sensor connector type
A = 90° angled
S = Straight

Leave blank if no cable required

Replace **Z.Z** with below code for cable length
1.5 = 1.5 meters
3.0 = 3.0 meters
5.0 = 5.0 meters
10.0 = 10.0 meters

Other lengths available on request

ORDERING EXAMPLES

WLWT-AA-510

-50...100°C (400 bar max) temperature sensor directly mounted to Watchlog transmitter.

WLWT-DD-520-S3.0

-50...200°C (400 bar max) temperature sensor cable mounted to Watchlog transmitter using a 3.0m cable and a straight connector.

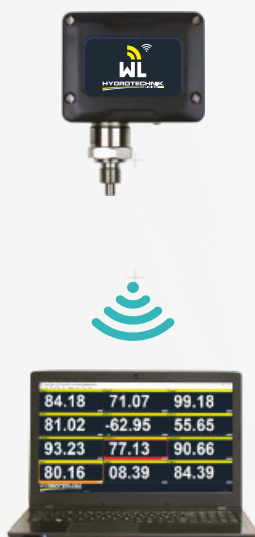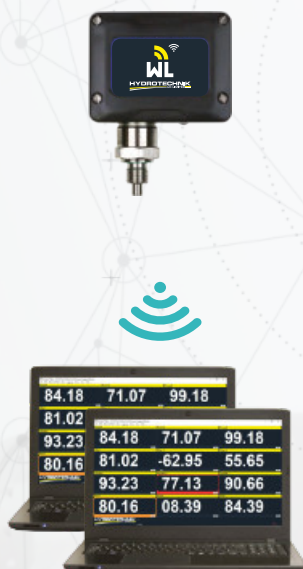*630 bar version also available. Call us to discuss your requirements.*

WATCHLOG WIRELESS
WLWT TEMPERATURE SENSOR

CONFIGURATION OPTIONS

One-to-One

One-to-Many

Many-to-One

Many-to-Many

OTHER WATCHLOG PRODUCTS AVAILABLE

WLWP wireless pressure sensors

WLWF wireless flow meters

WLW-AR signal repeaters WLW-PP1SP1 solar power panel and battery pack.

WLW-BSx series USB signal receiving base stations.

WLW series signal gateways

Watchlog display and datalogging software

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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 sensors with transmission rates of up to 1000 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 (800m 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, all powered by two widely available batteries.

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/watchlog**

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