



WATCHLOG WIRELESS

WIRELESS LINEAR POTENTIOMETER

WLWLP

Powered by 2xAA batteries up to 5 years battery life

Optional 2xD battery powered or 5...18Vdc externally powered option


Transmit wireless level readings up to 1.6km distance and up to 200 times a second

Automatic sleep mode when not in use to save battery life

High accuracy

SECTORS

Structural monitoring
Industrial machinery
Agricultural machinery
Hydraulics
Automotive

 The wireless linear potentiometer sensor allows accurate position detection over strokes from 0–25mm up to 450mm.





WATCHLOG WIRELESS WLWLP LINEAR POTENTIOMETER

The linear position sensor principle of operation is of potentiometric type, based on a resistance output relevant to the position/displacement of a slider.

The high-accuracy, low-noise measurement electronics deliver high-resolution, low-drift results. The sensor output can be easily reversed or zeroed in place.

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

The wireless sensor transmitter modules come configured as standard with a 10ms sample every 1 second. This can be adjusted by customers by using the free toolkit software supplied or alternatively provided as required.

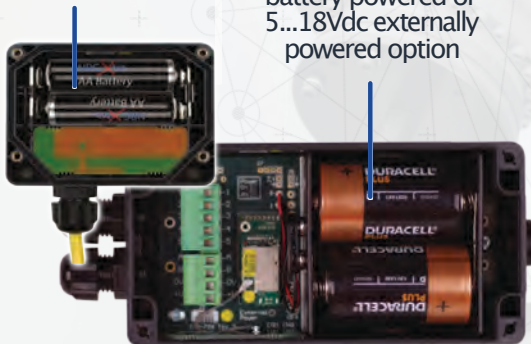


**SENSORS CAN
BE CONFIGURED
WITH
THE INCLUDED
SOFTWARE
TOOLKIT**

WLWLP ASSEMBLY OVERVIEW

Powered by 2
'AA' cell batteries

Optional 2xD
battery powered or
5...18Vdc externally
powered option



Power LED

Environmentally
sealed to IP67



Watchlog linear
potentiometers
transmitters come
with a cable length
starting from 500mm
up to 10 meters.



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



WATCHLOG WIRELESS WLWLP LINEAR POTENTIOMETER

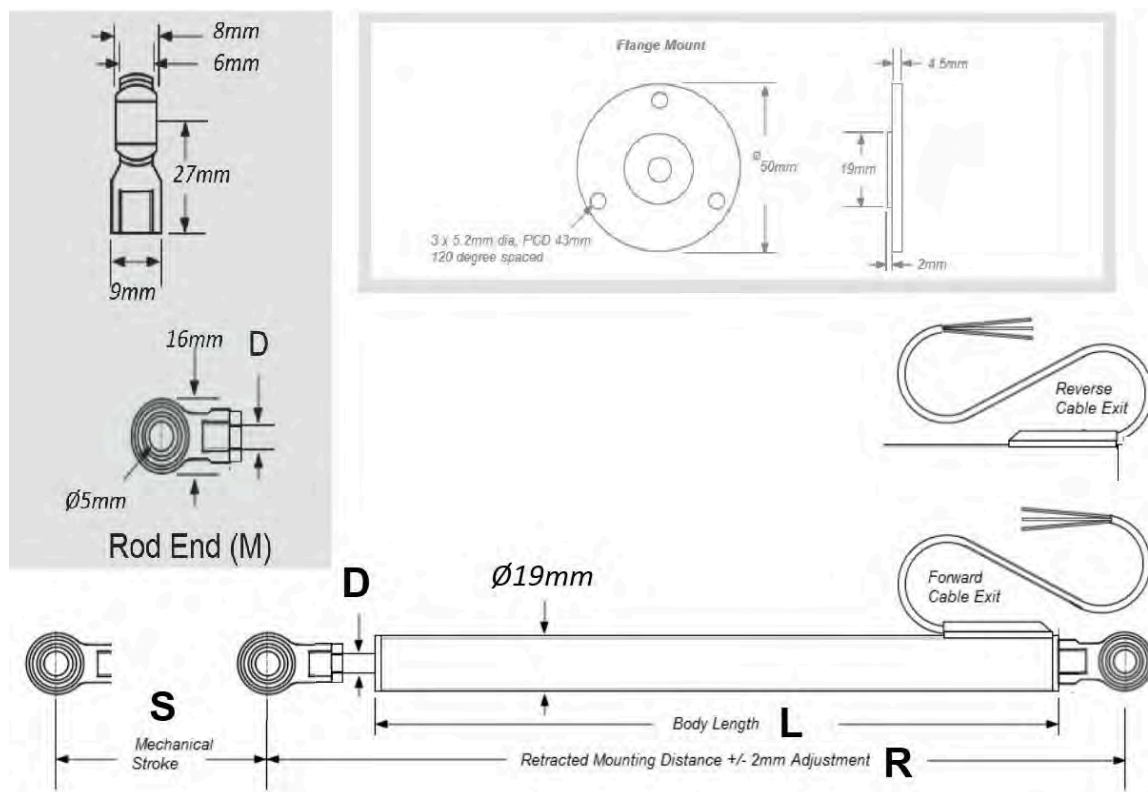
TECHNICAL SPECIFICATIONS

Specification	Detail
Wireless range (maximum)	800 meters
Wireless range (maximum with HT-AR)	1600 meters
Transmission rate	5ms...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...55°C
Linear potentiometer operating temperature	-40...150°C
Stroke lengths	25, 50, 75, 100, 150, 200, 250, 300, 350, 400, 450mm
Repeatability	<0.01mm
Independent linearity (of measurement range)	<0.5%
Housing material	Aluminium
Shaft material	Stainless steel
Connections	Rod End (5mm dia.)
IP rating	IP67





WATCHLOG WIRELESS WLWLP LINEAR POTENTIOMETER

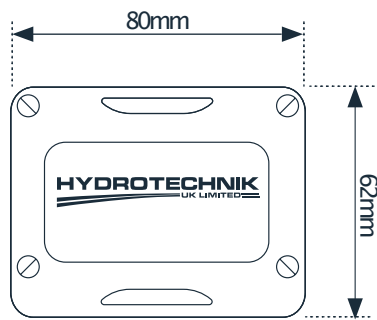


Dimension

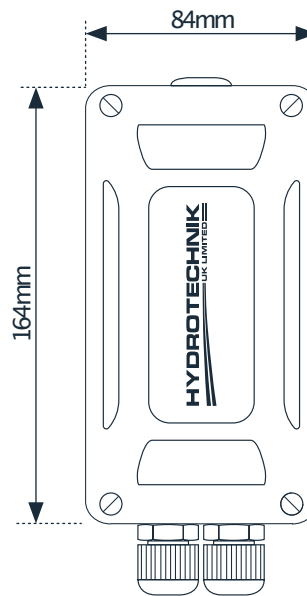
Stroke	S	L	D	R
25	27	107	6	173
50	52	132	6	198
75	77	157	6	223
100	102	182	6	248
150	152	232	6	298
200	202	282	6	348
250	252	332	6	398
300	302	382	6	448
350	352	452	6	518
400	402	502	6	568
450	452	552	6	618



WATCHLOG WIRELESS WLWLP LINEAR POTENTIOMETER



WLWLP-AA Transmitter



WLWLP-DD Transmitter

WLWLP - ** - XXX - R - Z.Z

Replace ****** with below code for the required transmitter type

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

Replace **XXX** for the required stroke length (S) in mm and measuring range

e.g 25 = 25mm

S min = 25mm
S max = 450mm

Replace **R** with cable exit required

R = Reverse
F = Forward

Replace **Z.Z** with below code for cable length

0.5 = 0.5 meters
1.0 = 1.0 meters
3.0 = 3.0 meters
5.0 = 5.0 meters
10.0 = 10.0 meters

Other lengths available on request

ORDERING EXAMPLE

WLWLP-DD-150-F-S3.0

Watchlog wireless linear potentiometer with DD wireless transmitter box. 150mm stroke length with forward cable exit and 3 meter long cable between the sensor and wireless transmitter.



WATCHLOG WIRELESS WLWLP LINEAR POTENTIOMETER

CONFIGURATION OPTIONS

One-to-One



One-to-Many



Many-to-One



Many-to-Many



OTHER WATCHLOG PRODUCTS AVAILABLE



WLWT wireless
pressure &
temperature
sensors



WLWF wireless flow meters



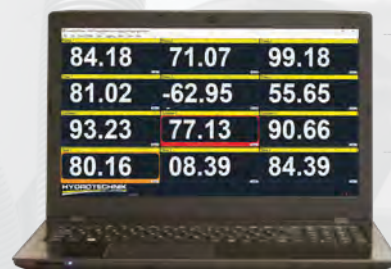
WLW-AR signal repeaters
WLW-PP1SP1 solar power
panel and battery pack.



WLW-BSx series USB signal
receiving base stations.



WLW series signal gateways



Watchlog display
and datalogging software



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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