



WATCHLOG PRO

Hydraulic System Monitoring

REMOTE MONITORING CLOUD
GATEWAY WITH INTEGRATED
PRESSURE, TEMPERATURE, FLOW
AND OIL CLEANLINESS OPTIONS

When integrated into your hydraulic system, a Watchlog PRO Hydraulic System Monitoring unit will continuously transmit flow rate, pressure, temperature and optionally oil cleanliness to the cloud, or by request to a custom web server via 4G (SIM card) or Wi-Fi.

Sensor readings can be viewed and saved using our online cloud platform, accessible via most web browsers. Customisable alerts are

possible both locally, using a light tower, buzzer or combination of both, as well as using alerts within the cloud software and with SMS messaging.

Installed inline within your setup and powered by 24VDC, the Watchlog Pro Hydraulic System Monitoring unit is a one–stop solution for your remote hydraulic monitoring needs.

Integrate the Watchlog Pro Hydraulic System Monitoring unit directly into your existing system using the exterior inlet and outlet ports and supply

The integrated Watchlog Pro QUAD seamlessly transmits sensor data to the cloud and locally triggers buzzer and/or light tower alerts, if installed.

Our powerful cloud platform allows sensor data to be monitored and logged in customisable dashboards and alerts, as well as sending SMS notifications for system events.







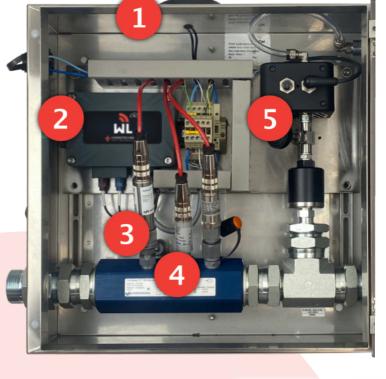
WATCHLOG PRO

Hydraulic System **Monitoring Features**



Stainless Steel **Enclosure** with external antenna

A rugged enclosure, built for industrial environments, allows connectivity to your hydraulic system via exterior ports.



Watchlog Pro QUAD Cloud Gateway

The integral component of the unit, the Watchlog Pro QUAD, accepts all sensor data before transmitting it to the cloud via WiFi or 4G.

Local, configurable buzzer and/or light tower alerts are also triggered by the QUAD.



Temperature & Pressure Sensors

A -50...200°C temperature sensor is included with pressure sensors ranging from -1...6 bar up to 0...400 bar available.

Flow Meter

A high-quality aluminium flow turbine for accurate flow measurement from 0...20 I/min to 0...600 I/min, up to 100cst of viscosity, is included.

Oil Cleanliness Monitor

The optional S120 Digital Imaging particle the system displayed as





WATCHLOG PRO Hydraulic System Monitoring Technical Specifications



Power	External supply: 24VDC		
Flow meter options	Flow rate	Exterior port size	
	020 l/min	1⁄4" BSP	
	075 l/min	3⁄4" BSP	
	0300 l/min	1" BSP	
	0600 l/min	1¼" BSP	
Temperature sensor	-50200°C		
Pressure sensor options	-16 bar, 060 bar, 02	50 bar and 0400 bar	
Max pressure	350 bar		
Oil Cleanliness	Optional S120 Digital Imaging particle counter reading ISO codes		
Additional sensors	GPS, Accelerometer for pitch, roll and vibration Ambient temperature, and voltage monitoring		
Monitoring	Use the Watchlog Portal to view and store data and configu <mark>re and update devices</mark> Optional SMS notifications		
Buzzer volume	95db		
Network	4G LTE CAT-M1 (QUAD-C2-G) / 4G LTE CAT-1 (QUAD-C2-H) SIM card holder for Micro-SIM (internal soldered SIM optional) Wi-Fi (QUAD-C2-W) Endpoint: Watchlog Portal and 3rd party MQTT(S), HTTP(S), UDP servers		
Mechanical	Flow rate	Dimensions	
	020 and 075 I/min	Width: 300mm, Height: 400mm, Depth: 100mm	
	0300 and 0600 l/min	Width: 400mm, Height: 400mm, Depth: 100mm	
		Height with Antenna: 417.5mm Height with Buzzer: 494mm Height with Light Tower: 562mm Light tower radius:	





WATCHLOG PRO Hydraulic System Monitoring

Ordering Code

Use the following lookup tables to create an order code for your requirement.



WLPRC	HSM -	PW -	Т-	QX -	Υ	-[Z

Replace PW with	Pressure range
P1	-16 bar
P2	060 bar
Р3	0250 bar
P4	0400 bar

Replace QX with	Flow rate
Q1	020 l/min
Q2	075 l/min
Q3	0300 l/min
Q4	0600 l/min

Refer to the specifications table to determine the exterior port size and overall enclosure size for each flow meter.

Replace Z with	Alert option
X	None
W	Buzzer
Υ	Red & Green light tower
Z	Buzzer and Red & Green light tower

Replace Y with	Particle Counter
X	None
Α	S120 Particle Counter

Example Ordering Code

The following part code would be used to order a hydraulic system monitor with a 0...400 bar (P4) pressure sensor, 0...300 l/min flow meter (Q3), S120 particle counter (A) with a buzzer and red & green light (Z):

WLPROHSM-P4-T-Q3-A-Y