

WIND TURBINE APPLICATION

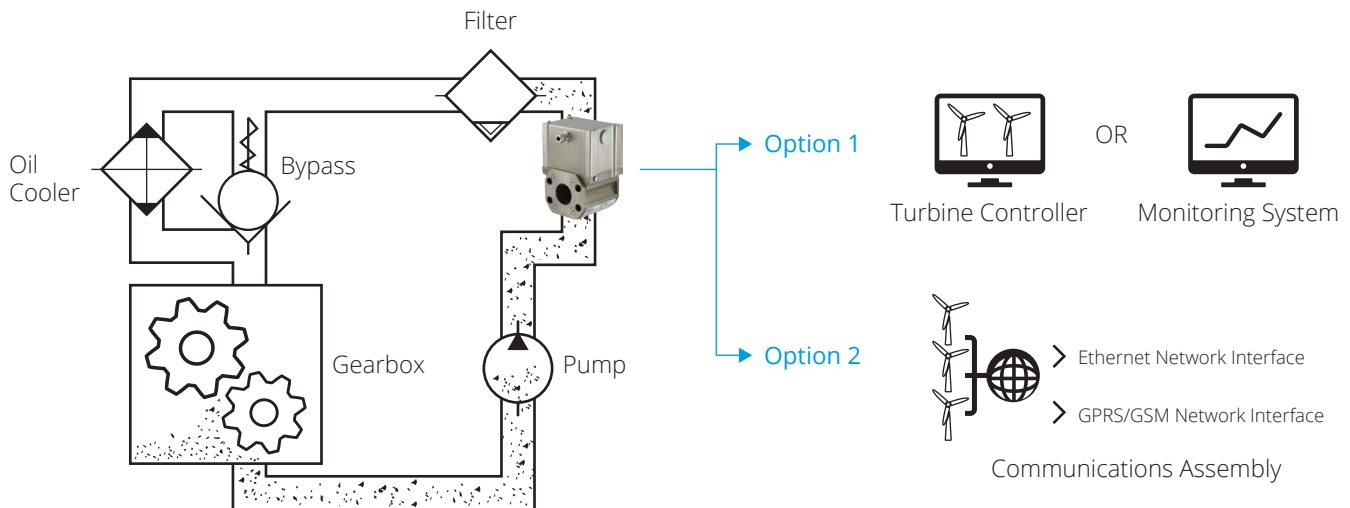
# CLIPPER LIBERTY

Real-time detection of gearbox damage - anytime, anywhere.  
Designed for the Clipper Liberty Wind Turbine, the MetalSCAN on-line oil debris sensor installs easily into the oil line after the pump and before the filter.

## Application

To install the sensor, the hydraulic hose before the filter is removed or pulled back depending on the lube system configuration. The sensor is placed in-line and new elongated bolts installed to secure the hose, adapter and sensor in the filter inlet hose. The sensor can then be wired from its terminal block to the existing monitoring system, if fitted, or can be interfaced directly to a MetalSCAN Communications Assembly for wireless GPRS or Ethernet network connection. Simply follow the step-by-step installation instructions included with the MetalSCAN package. Installation of a MetalSCAN to a Clipper Liberty can be completed in less than 2 hours per turbine.

## Installation on Clipper Liberty Wind Turbine



LONG LIVE EQUIPMENT



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[gastops.com](http://gastops.com)

## CLIPPER LIBERTY

## Ordering Information

## MetalSCAN 3115 Sensor Module

Order: Sensor-3115

Including: 38mm bore and -24 SAE J518 (Code 61) 4-bolt flanges, one side flange with 225 O-ring groove, 1x 225 O-ring, 20 bar max pressure, 5 msec pulse width, integral electrical connection terminal block, user's manual, 12 month warranty. 12 month warranty.

## MetalSCAN Sensor Installation Kit (select one)

Kit for Lube System 'Configuration A'

Order: Install-A-Liberty2.5x

Including: 4x extended mounting bolts, 4x lock washers, and 2x O-ring face seals, 12 month warranty.

Kit for Lube System 'Configuration B'

Order: Install-B-Liberty2.5x

Including: 4x extended mounting bolts, 4x mounting bolts, 8x lock washers, 2x O ring face seals, 1x adapter flange, and 1x hose assembly; 12 month warranty.

## OPTIONS



## MetalSCAN Cable

Order: Cable-3003x

Communication Wire between MetalSCAN Series 3000 Sensor and power supply/host system – 4 conductor (per 30 m. roll), 12 month warranty.



## MetalSCAN Series 3000 GPRS Communications Assembly

Order: Alarm-3006x

including: Particle counting, particle count resetting, BIT monitoring, wireless GPRS/GSM Modem, configurable for Email, ModBUS TCP, OPC and/or Database interface, Web configuration, 24VDC input power, DIN Rail, Terminal Strip, 10m cable for connection to MetalSCAN sensor, user's manual, 12 month warranty.

Note: 1) SIM card and GPRS/GSM data account is not included.



## Enclosure for Alarm-3006x or Alarm-3009x

Order: Alarm-3008x

Including: Fiberglass, NEMA 4 enclosure, L 254mm x W 203mm x H 203mm, 12 month warranty.



## MetalSCAN Series 3000 Ethernet &amp; Email Communications Assembly

Order: Alarm-3009x

Including: Particle counting, particle count resetting, BIT monitoring, Ethernet, configurable for Email, ModBUS TCP, OPC and/or Database interface, Web configuration, 24VDC input power, DIN Rail, Terminal Strip, 10m cable for connection to MetalSCAN sensor, user's manual, 12 month warranty.

LUBE SYSTEM 'CONFIGURATION A'  
(FLEX HOSE FROM FILTER MANIFOLD)LUBE SYSTEM 'CONFIGURATION B'  
(RIGID PIPE FROM FILTER MANIFOLD)

# MetalSCAN

ONLY BY GASTOPS

## ORDER NOW

North America: 1 800 363 8658  
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