ADS Uptime™

– for wireless service check-up

Bluetooth®

With the release of ADS Uptime™, Leine & Linde has developed an extremely useful condition monitoring system for encoders. The flexibility in how to access the data and diagnostics is unprecedented.

ADS Uptime for wireless service check-up facilitates on-demand reading of a great number of variables. The encoder will tell you in good time before it needs to be replaced, and the data you receive from it will also say a lot about the condition of the motor installation.

Wireless connection

ADS Uptime is Leine & Linde's advanced diagnostic system, a condition monitoring system, which is now released with wireless connection for Leine & Linde's 800 series encoders. Read out data and diagnostics in the associated app on a mobile device. Access live data or choose to see detailed data for a specific timeframe, to understand when there will be need to plan for maintenance actions. The encoder communicates via Bluetooth, and no extra cables are needed.

Encoder reliability

The encoders in the 800 series are known for withstanding harsh conditions and demanding environments. They are typically used in production-critical applications in process industries, cranes, conveyor systems, wind or marine industries, where uptime is of great importance. The reason for including the ADS Uptime wireless functionality in an encoder known for accuracy, stability, and long lifetime, is that data and diagnostics from the motion of a rotating shaft in these applications will be very well suited for securing production uptime. It will help you avoid hassle and extra work down the road. There is money to be saved.

Warnings and proactive maintenance

Visual warnings make it very easy to spot an incipient problem that may affect the scanning quality. The LEDs on the encoder will inform you about the status by signals in green, orange, flashing read or steady red light.

With its diagnostic system, the encoder constantly monitors its key functions and performs an internal analysis. But the best part is that this collection of data and your early knowledge of deviations can help you to understand the root cause or risk for potentially occurring problems. Make the encoder check-up part of your proactive maintenance routine to make sure problems are taken care of before they start to exist.

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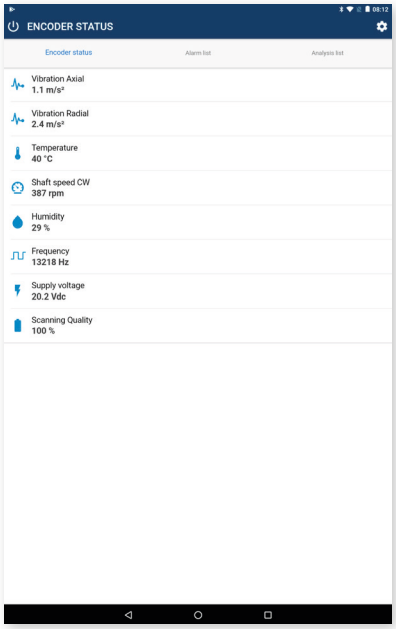
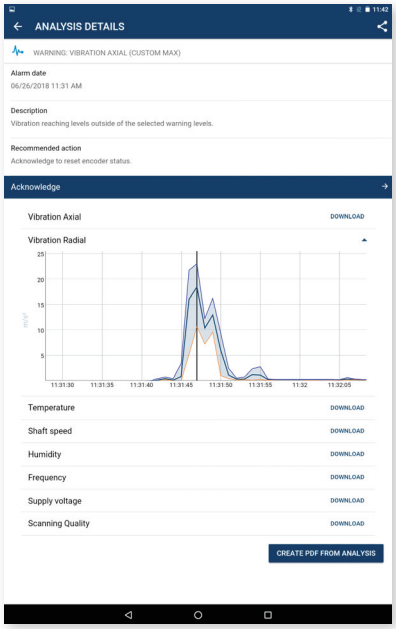
Service check-up and trending

ADS Uptime for wireless service check-up is a tool for simplifying the maintenance routines. Connect the app and perform a simple service check-up on the inspection round. Access all the collected data from the encoder. Follow graphs to see the trends of motor performance.
In the ADS Uptime app, several factors can be tracked; vibration – axial and radial, temperature, shaft speed, humidity, and much more. Following these parameters will help detecting trends and influencing factors to start practicing proactive maintenance. Trending is the primary activity to learn failure mechanisms, where understanding, documentation, and sharing of lessons learned will lead the way to a problem-free production.

Warnings and alarms can also be set for the different parameters. You will be able to avoid unplanned stops for the motor and drive systems when you have access to all necessary data to make predictions.



Encoder status and environmental parameters – The encoder constantly logs data, which can be read out either live or retrospectively.



Quick report handling – For every serious deviation that occurs, the encoder automatically stores a fault buffer containing detailed data from both before and after the event. Warning reports and customized analysis reports are very easily to export as pdf and send to any recipient.

History covering the encoder's entire service life

It is possible to study the graphs with data collected during the encoder's entire service life. Have the operating conditions changed over time? Increased vibrations can be a sign that the encoder's motor's bearings are beginning to wear out. Increased temperature can mean that friction has increased somewhere in the machine and that service is required. The history function continually stores data for all environmental parameters, all the way back to the day when the encoder was first put in service.

Future-proof hardware and easy retrofit

Buy the ADS Uptime for wireless service check-up as part of the encoder models 850, 861 or 862. The ADS Uptime encoder hardware is also prepared for the possibility that the user may later want to integrate data from the encoder into other systems for overall condition monitoring, process management, resource planning, or supervision.

The standard encoder cables are used for the encoder installation, and thereby this solution is very suitable for retrofit projects. It works both as a stand-alone solution and with future plans for interconnections to other systems when the need arises.

Technical data

	Model 850	Model 861	Model 862
Shaft sizes	Ø 11 mm, with key nut	Ø 12 mm hollow-shaft Ø 16 mm hollow-shaft	Ø 12 mm isolated up to 2.5kV Ø 16 mm, isolated up to 2.5kV Ø17 mm taper shaft, isolated up to 2.5kV
Shaft load axial/radial	500 N/ 1200 N	500 N/1200 N	500 N/ 1200 N
Power supply	9-30 Vdc	9-30 Vdc	9-30 Vdc
Output signal	HTL,HC-HTL and RS422	HTL, HC-HTL and RS422	HTL, HC-HTL and RS422
Operating temprature	-20°C...+85°C	-20°C...+85°C	-40°C...+85°C
Rotational speed max	6000 rpm	6000 rpm	6000 rpm
Ingress protection [IEC 60529]	IP67 (IP66 at shaft inlet)	IP67 (IP66 at shaft inlet)	IP67 (IP66 at shaft inlet)
Vibration [IEC 60068-2-64]	< 20 g, 55-2000 Hz	< 20 g, 55-2000 Hz	< 20 g, 55-2000 Hz
Shock [IEC 60068-2-27]	200 g, 6 ms	200 g, 6 ms	< 400 g, 3.5 ms
Short-circuit protected	Yes	Yes	Yes
Bluetooth communication range	20 m at normal conditions	20 m at normal conditions	20 m at normal conditions

Order information Model 850

8 5 0 - 0 b 9 _ _ 6 - _ _ _ _ _

Flange

0 = Euro flange B10

Functionality

b = ADS Uptime wireless (Bluetooth)

Shaft

9 = Ø11 mm, with key nut

Connection

1 = Radial 12 pin M23 connector CW
2 = Radial 12 pin M23 connector CCW
4 = M20 cable gland, for Ø8-11 mm
5 = M20 cable gland, for Ø11-14 mm
3 = Cable, radial 1.5 m
9 = Cable, radial xx m

Resolution

1-10000 ppr

Number of channels

6 = 6 channels

Electronics

5 = HCHTL (9-30 Vdc supply, 9-30 Vdc output)
6 = HTL (9-30 Vdc supply, 9-30 Vdc output)
7 = RS422 (9-30 Vdc supply, 5 Vdc output)

Model 861

8 6 1 - [ ] b [ ] [ ] [ ] [ ] - [ ] [ ] [ ] [ ] [ ]

Flange
0 = Standard
1 = Torque bracket

Functionality
b = ADS Uptime wireless (Bluetooth)

Shaft
7 = Ø12 mm, insulated hollow-shaft
8 = Ø16 mm, insulated hollow-shaft

Connection
1 = Radial 12 pin M23 connector CW
2 = Radial 12 pin M23 connector CCW
4 = M20 cable gland, for Ø8-11 mm
5 = M20 cable gland, for Ø11-14 mm
3 = Cable (PVC), radial 1.5 m
9 = Cable (PVC), radial xx m

Electronics
5 = HCHTL (9-30 Vdc supply, 9-30 Vdc output)
6 = HTL (9-30 Vdc supply, 9-30 Vdc output)
7 = RS422 (9-30 Vdc supply, 5 Vdc output)

Number of channels
5 = 5 channels (only available with HC-HTL, i.e. output option 5)
6 = 6 channels

Resolution
1-10000 ppr

Model 862

8 6 2 - [ ] [ ] [ ] [ ] [ ] [ ] - [ ] [ ] [ ] [ ] [ ]

Flange
0 = Standard
1 = 120° torque bracket
2 = 330° torque bracket

Extended warranty
0 = Standard
1 = 1 years extended warranty
2 = 2 years extended warranty

Shaft
7 = Ø 12 mm, isolated up to 2.5kV
8 = Ø 16 mm, isolated up to 2.5kV
9 = Ø 17 mm taper shaft, isolated up to 2.5kV

Connection
1 = Radial 12 pin M23 connector CW
2 = Radial 12 pin M23 connector CCW
3 = Cable, radial 1.5 m
4 = M20 cable gland, Ø8-11 mm
5 = M20 cable gland, Ø11-14mm
9 = Cable, radial xx m

Electronics
5 = HCHTL (9-30 Vdc supply, 9-30 Vdc output)
6 = HTL (9-30 Vdc supply, 9-30 Vdc output)
7 = RS422 (9-30 Vdc supply, 5 Vdc output)

Functionality
b = 6 channels with ADS Uptime wireless (Bluetooth)
e = 3 channels with ADS Uptime wireless (Bluetooth)*
*only Electronics option 5

Resolution
1-10000 ppr