Different LST offerings

Features/Solution	**Check** *via handheld display*	**Local monitoring** *via tablet or laptop*	**Wireless remote monitoring** *via Portal or API*	**Wired remote monitoring** *via Portal or API*
Reading	✓	✓	✓	✓
Saving (log)	–	✓	✓	✓
Wired connection (from LST)	✓	–	–	✓
Wireless connection (from LST)	–	✓	✓	–
Local (on site) monitoring	✓	✓	✓	✓
Remote (off site) monitoring	–	–	✓	✓

LST variants

LST internal ring

- CY or MT version
- Standard sizes are M36 - M100
- Machine grooved MJT
- Sensors mounted in the groove
- Sensors covered by ring in Delrin material
- IP67 classed M5 connector in the nuthouse

LST external ring

- CY or MT version
- Standard sizes are M36 - M100
- Standard shaped MJT
- Sensors mounted on the outer diameter
- Sensors covered by ring in Delrin material
- IP67 classed M5 connector in the nuthouse

Read out options

Check

Use case
Local wired monitoring

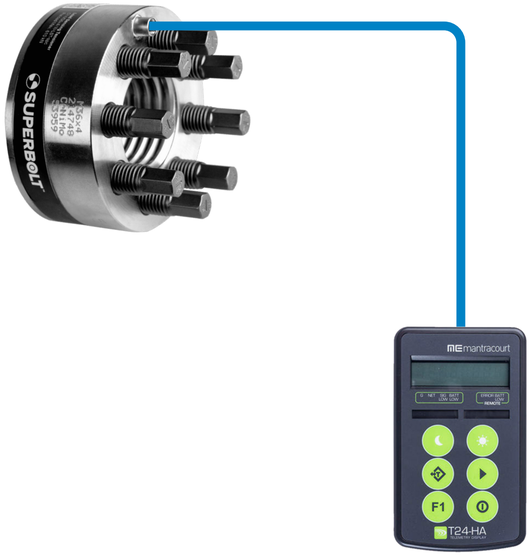
The handheld display is connected to the LST to which a cable with an integrated memory (TEDS) ,containing the calibration file, is connected. Thereby the preload is visualized directly without any need of uploading a calibration file prior to the measurement, its pure plug & play.

The handheld display is only connected while measuring the preload then its disconnected and re-used for measurement on another LST.

Parts in the solution:

Handheld display (PSD) with cable compatible with TEDS cable on LST

TEDS cable



Read out options

Local monitoring

Local monitoring ruggdized tablet

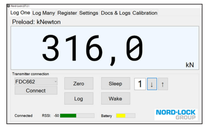
Local but wireless monitoring of preload with possibility to save the log file locally and with option to send up the log file to the cloud from the tablet via mobile data. The T24 transmitter is only connected while measuring the preload then its disconnected and re-used for measurement on another LST.

Parts in the solution:

T24 Transmitter

Windows tablet
with a T24 receiver

Hard case with
cut out foam



LST Program

Note This is a complete solution with a Transmitter, one Receiver and a ruggdized tablet. All parts nicely stored in a hard case.
The option to send the log file to the cloud is currently under development.

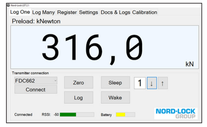
Local monitoring laptop

Local but wireless monitoring of preload with possibility to save the log file locally and with option to send up the log file to the cloud from the laptop via mobile data. The T24 transmitter is only connected while measuring the preload then its disconnected and re-used for measurement on another LST.

Parts in the solution:

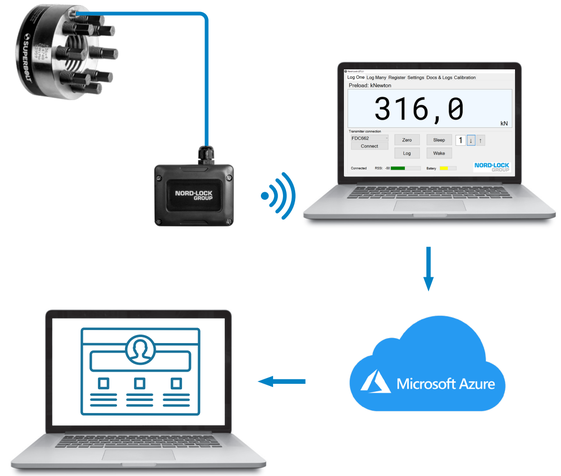
T24 Transmitter

T24 Receiver as
an USB dongle



LST Program

Note The laptop to which the Receiver (USB dongle) needs to be connected is not included in our offering , this is something the customer needs to arrange themselves. The installation of the program is something the customer needs to do.
The option to send the log file to the cloud is currently under development.



Read out options

Wireless remote monitoring

Use case
This solution consist of a permanently mounted T24 transmitter on the LST which transfers the Preload data wirelessly to a Gateway via the T24 receiver that is connected to the USB port of the Gateway.

The Gateway as such then transfers the Preload data either via ethernet, WiFi or mobile network to the Nord-Lock Azure cloud and is thereafter visualized either on the Nord-Lock web Portal or possible to integrate to other portal solutions via Nord-Lock APIs.

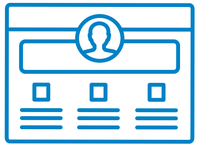
Parts in the solution:

T24 Transmitter

T24 Receiver as an USB dongle

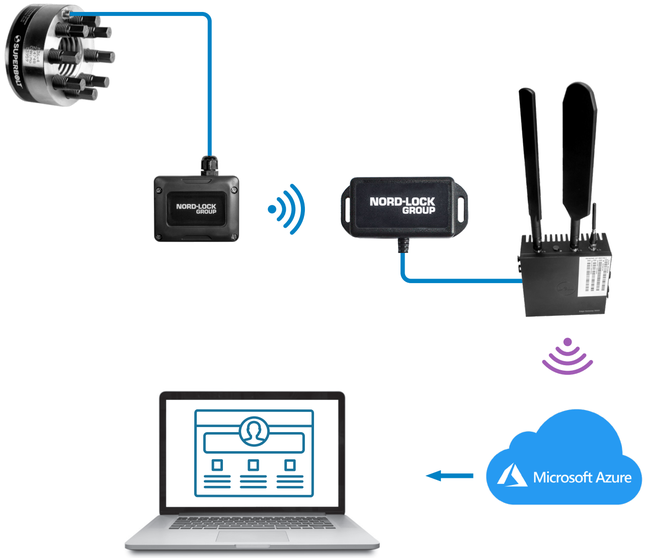
Dell Edge Gateway 3003

Azure Service



Nord-Lock Portal or Nord-Lock API

Mobile network (if neither ethernet or WiFi can be used)



Read out options

Wired remote monitoring

Use case

This solution consists of a wired connection from the LST to a so called Q.bloxx module which has input for in total eight LSTs. This Q.bloxx module is then connected to a so called Q.station that works as a Gateway, in the sense that it gathers the sensor data and send it further wired or wireless. The Q.station has in total 16 input channels to which the Q.bloxx modules can be connected. So this means that for each Q.station, 128 LST:s can be connected (8LST:s per Q.bloxx times 16 input channels per Q station = 128 LST:s per Q station). Last part of this solution is the Nord-Lock APIs that the customer can intergrate to in order to access the data else access it directly on the Nord-Lock Portal via a customer login.

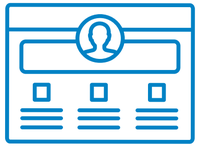
Parts in the solution:

Q.station-X B

Q.bloxx_X A116 (8 ch)

Cable for 8 channels

Azure service



Nord-Lock Portal or Nord-Lock API