

# TRILUX Digital Services

## Performance specification

### Introduction

With TRILUX Digital Services, the potential of a digital lighting solution can be exploited without effort. TRILUX achieves this through cloud-based monitoring of installed TRILUX luminaires using the LiveLink light management system. Users can choose between Energy Monitoring and Light Monitoring. Actual maintenance work on the lighting installation is not owed based on the use of the digital services Energy Monitoring or Light Monitoring.

### Prerequisites

In order to be able to book TRILUX Digital Services, a few prerequisites must be fulfilled. First, luminaires with intelligent control gear (BAG ICD or INCD) and the LiveLink light management system must be installed. Furthermore, the connectivity of the lighting installation or the LiveLink light management system with the TRILUX Cloud must be provided by the customer – either via the customer's WLAN network, an additional connection via the customer's provider or the connection offered by TRILUX via Telekom. To link the installed LiveLink light management system with the TRILUX Cloud, registration in the TRILUX Portal is required.

### Energy monitoring

With energy monitoring, energy consumption operating data can be read out via the LiveLink light management system either at group or individual luminaire level. Energy monitoring supplies data regarding:

- energy consumption
- operating time
- operating status (on or off)

In addition, the progress data is available via a report function.

### Light Monitoring

With Light Monitoring users gain access to all relevant operating data of the lighting solution via LiveLink: The comprehensive information can be used to adjust not only the operating data on energy consumption but also the maintenance cycles to actual requirements, since the system recognises maintenance requirements in advance and proactively reports them to the responsible service centre if required. Light Monitoring provides data regarding:

- energy consumption
- operating time
- operating status (on or off)
- dimming status
- DALI and LiveLink error codes
- temperature of the ECG
- Predictive Maintenance

### **Predictive Maintenance**

As part of Predictive Maintenance, this service provides data on the remaining useful life of a luminaire or luminaire group – in the case of a luminaire group, the luminaire with the shortest service life is identified. The temperature in the luminaire is also monitored. This service displays the temperature cycle in all installed luminaires including the minimum and maximum temperature. If maintenance is required, notifications are sent via e-mail. The notification time can be set by the user.

In addition, the progress data is available via a report function.

The user can also request raw data directly from the TRILUX Cloud via an API interface.