

## EU Data Act - Product Data Information

LED drivers | Regulation (EU) 2023/2854, Article 3

**Scope:** This information applies to Helvar Components LED-driver models that generate retrievable operational product data. Available data sets and access methods vary by product model and supported features. Static manufacturing information and user-configured parameters are outside the scope of the operational-data table below unless they are generated or updated through use of the product.

### CONNECTED PRODUCTS - LED DRIVERS

Article 3(2) requires pre-contractual information on the type, format and estimated volume of product data; whether it can be generated continuously and in real time; on-device or remote storage and retention; and how the user can access, retrieve or, where relevant, erase the data.

| Data set                         | (a) Type, format and estimated volume                                                                                                                                                                                                                                | (b) Continuous / real-time                                                                   | (c) Storage / retention                                                                                                                                                                                       | (d) Access / retrieval / erasure                                                                                                                                                                                                                                              |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DALI Part 252 Energy Data</b> | Operational energy and power data according to the DALI Part 252 data objects supported by the product, including active/apparent energy and power and load-side energy readings.<br><br>Binary data according to the DALI protocol; volume <128 bytes per data set. | YES, for live values where supported. Cumulative energy values are updated during operation. | Stored on-device as applicable to each DALI data object. Cumulative values are retained in device memory according to the product implementation. No remote-server storage is required for the driver itself. | Accessible over the DALI bus. Helvar Driver Configurator (HDC) can access Smart Data through a DALI interface; cumulative and counter data can also be read through NFC with HDC where supported. Erasure/reset depends on the applicable DALI data object and product model. |

# Helvar Components

| Data set                                           | (a) Type, format and estimated volume                                                                                                                                                                                                                                                                                                                 | (b) Continuous / real-time                                                                                                  | (c) Storage / retention                                                                                                                                                                                                            | (d) Access / retrieval / erasure                                                                                                                                                                                                                 |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DALI Part 253 Diagnostics &amp; Maintenance</b> | <p>Operational and diagnostic data according to the DALI Part 253 data objects supported by the product, including operating time and counters, supply voltage, power factor, temperature, and fault/failure conditions for control gear and light sources.</p> <p>Binary data according to the DALI protocol; volume &lt;128 bytes per data set.</p> | YES, for current measurements/status values where supported. Counters and operating-time values are accumulated during use. | Stored on-device as applicable to each DALI data object. Current/status values and cumulative counters have retention behaviour defined by the product implementation. No remote-server storage is required for the driver itself. | Accessible over the DALI bus. HDC can access Smart Data through a DALI interface; cumulative and counter data can also be read through NFC with HDC where supported. Erasure/reset depends on the applicable DALI data object and product model. |
| <b>Operating-condition Histograms</b>              | <p>Accumulated usage time in predefined categories representing operating conditions experienced during use of the LED driver. Histogram definitions and categories vary by product model.</p> <p>Binary counter data; volume &lt;128 bytes per histogram data set.</p>                                                                               | YES, counters and operating-time values are accumulated during use.                                                         | Stored in non-volatile on-device memory. Retention, reset and overwrite behaviour depend on the product model and histogram implementation. No remote-server storage is required for the driver itself.                            | Accessible through supported Helvar configuration/service interfaces depending on product model. Erasure/reset, where available, depends on the specific implementation.                                                                         |



## TOOLS AND SERVICES USED WITH THE PRODUCT DATA

The following Helvar Components tools provide local access to, or programming of, compatible LED drivers. Classification of a particular tool as a “related service” under Article 3(3) depends on the applicable contractual and service arrangement; the descriptions below identify their product-data role.

| Tool                             | Purpose / interface                                                                                                                                        | Product-data access                                                                                                                                | Data generated or stored by the tool                                                                                                                                                                                                     |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Helvar Driver Configurator (HDC) | PC application for advanced parameter setting of supported Helvar Components LED drivers. Programming and reading are supported over NFC and the DALI bus. | HDC can access Smart Data through a DALI or NFC interface. For supported products, cumulative and counter Smart Data can also be read through NFC. | Product-specific configuration files can be created and saved by the user. Product-data access is local to the connected driver through DALI or NFC; no remote server is required for this access method.                                |
| Helvar Mobile Programmer         | Mobile application for NFC-compatible Helvar Components LED drivers. NFC communication is used while the driver/luminaire is switched off.                 | Reading/writing current, copying configuration and reading driver identification such as serial number, GTIN/EAN and software version.             | The application may hold user-selected configuration information required for the programming workflow. Product interaction is local over NFC.                                                                                           |
| NFC Production Programmer (NPP)  | PC production-line application for programming compatible LED drivers over NFC using configuration files created in HDC.                                   | NPP is a production-programming and verification tool rather than an operational-data access tool.                                                 | When enabled by the operator, NPP can write a local log file containing configured parameters and PASS/FAIL results for each programmed device. The operator chooses the log-file destination. It can also support local label printing. |

## INTERPRETATION AND SCOPE NOTES

- This document focuses on product data generated through operation/use and designed to be retrievable. DALI Part 251 luminaire/manufacturing data, serial numbers, firmware versions, configuration settings, NFC passwords and similar static or user-entered parameters are not included in the operational-data table above.
- Only data sets and interfaces actually supported by a specific product model apply.
- Histogram definitions vary by product model; the family-level disclosure therefore describes the data generically as accumulated usage time in predefined operating-condition categories.