

# Time to switch.

Bluetooth Time Switches

:hager

Hager's new range of Bluetooth time switches is the latest extension of our range of digital timers. It has been developed to provide ease of programming; advanced time-switching accuracy; and the flexibility of choice between multiple functions.

With the latest Bluetooth technologies, Hager's new range facilitates every step of your programming schedule with the convenience of using your mobile devices, your computer or directly on the time switch. At home, in the office or on site, you can create programs anywhere with the Hager Mood App. Pair your mobile device and the timer wirelessly... Job done. Hand over to the end user is simple through a secure cloud based data exchange.

**New generation of  
time switches....**

**Versatile functions,  
the option to  
program via the  
Hager Mood app  
that meets every  
requirement. Join us  
in starting a new age!**

# Easy. Accurate. Secure.

The new time switches allow you to perform time switch tasks faster and with more flexibility, thanks to state-of-the-art technology.



## Hassle-free programming

Program time switching schedules directly on the device, via the Hager Mood app. The new app is compatible with iOS (from version 8), Android (from version 5.1) and Windows (from version 10).



## More programming flexibility

Set up time schedules on-site or prepare or change them from any location via the app. Pre-created time schedules can be easily transferred to your time switch at any time via Bluetooth ensuring time savings on when, where and how you do your time scheduling.



## Location accuracy

Instantly geo-localise your time switch via the app at the touch of a button. Your system will thereby receive all necessary data for the use of the Astro mode which automatically detects sunrise and sunset without the need to manually adjust. At the same time, public holidays and school holidays are transmitted, enabling an automated feature to control exceptions.



## Highest data security

Program-related data is securely stored from the app in the Hager Cloud. Via myHager you can then share them with your team or hand them over to your customers. Confirmation request ensures no unauthorised access via third party. The use of Bluetooth 4.2 adds to speed and privacy.



## To the second precision

Our time switches EGN100AU and EGN200AU and EGN400AU guarantee ultra precise switching of your programs. The integrated real-time clock operates at a wide range of temperature with an accuracy of +/- 90 seconds per year (+/- 0.25s per day!). This ensures the highest efficiency of time-bound time schedules – without the inconvenience to adjust the time manually due to excessive deviation from the real time. In addition, the time synchronises whenever an end device is connected via Bluetooth.



## Extended capabilities

You can easily build extended overrides by connecting extra devices to your timers. For e.g you can directly connect a light sensor to your timer to only activate the schedule to a set luminosity. Or connect a push button to activate time delay functions.

# Our new time switches at a glance.

The time switches EGN100AU, EGN200AU and EGN400AU provide multi-functions in 1, 2 or 4 channels.

For less complex weekly time switch tasks, EGN103 offers a simple and cost saving one-channel solution which can be converted to bluetooth using a programming key EGN003.

## EGN103



Digital weekly time switch,  
1 channel

## EGN100AU



Digital yearly  
time switch with Bluetooth,  
1 channel

## EGN200AU



Digital yearly  
time switch with Bluetooth,  
2 channels

## EGN400AU



Digital yearly  
time switch with Bluetooth,  
4 channels



# Wide range of applications.

Our time switches are suitable for residential and commercial applications.

## Shop window lighting for retail spaces

With the right programming, shop windows can be presented attractively either at night or when light is not sufficient.



## Access control for public buildings

Our time switches enable timed opening and closing of accesses to public buildings. They can control access to some areas depending on the time of the day. For schools, they control alarm bells accurately.





## Outdoor lighting in multi-residential buildings

Automatically control the lighting of entrance areas.



## Holiday program with presence simulation

For residential single homes, presence simulation and twilight activation provides additional security when you are away. Other applications include pool control, watering system, etc.



# Add-ons for your time switch.

In addition to the bluetooth timers, light sensor add-ons enable you to activate your schedule to a set brightness, giving you cost savings on your power bill.

Using a standard or tactile switch, you can activate a non-permanent override (pulse) or permanent override.

### Light sensor

### Standard or tactile switch

#### EGN003



EGN003  
Bluetooth programming key,  
for EGN103



EEN003  
Photoelectric cell, wall  
mounted



EEN002  
Photoelectric cell,  
flush mounted





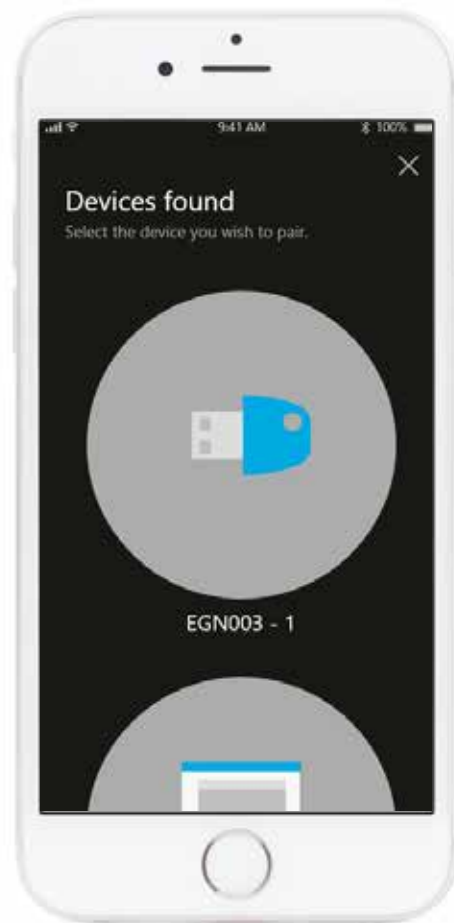
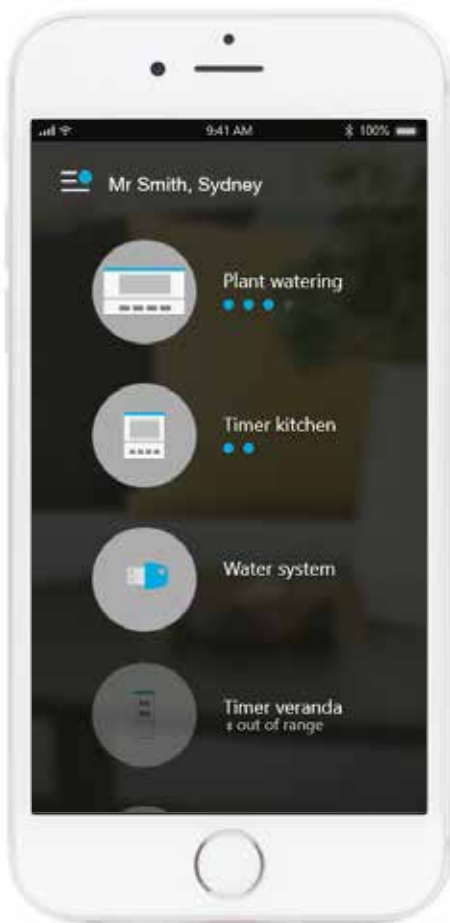
### Control buttons

Push buttons enable manual override directly on the time switch

### User-friendly display

Integrated display with LED backlighting

# Easy programming thanks to Hager Mood app.



## 01 Download Hager Mood app and program

Set the desired time, precise to the minute, for your time switch operation. Define switch on/off times, leap days as well as exceptions and priorities. Program your schedule, daily, weekly, yearly and manage your exceptions.

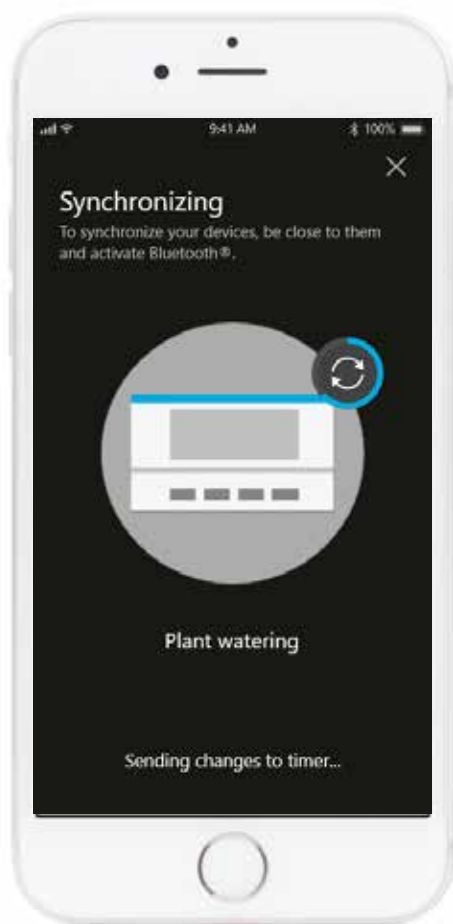
## 02 Select the timer

Power up the timer. Use Bluetooth to locate the time switch and establish a connection. When connecting, the time switch briefly lights up and you need to confirm the access manually.

The Hager Mood app allows you to program your time schedules before the actual installation. You can put your time switch into operation immediately following the installation.

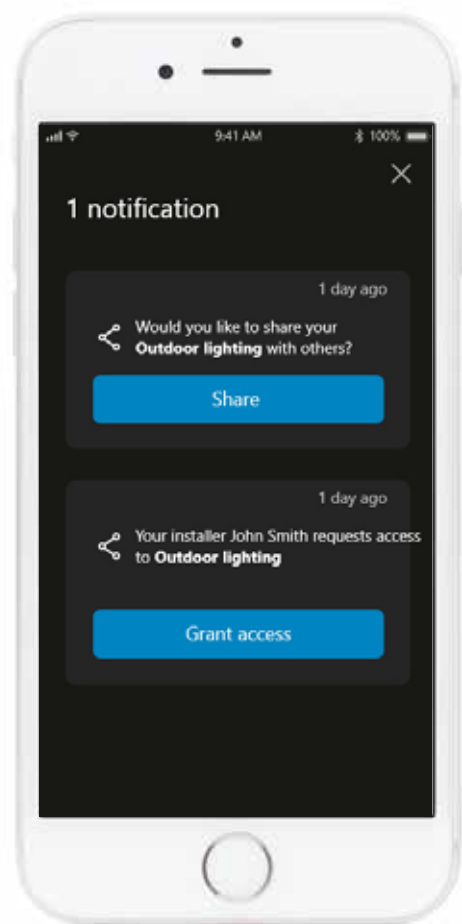
## Download

The free Hager Mood app can be downloaded from the Google Play Store, Microsoft Store and Apple App Store.



### 03 Pair the program with the timer

To transfer the program created on your device to the timer, synchronise them using the app. This process requires both devices to be in Bluetooth range.

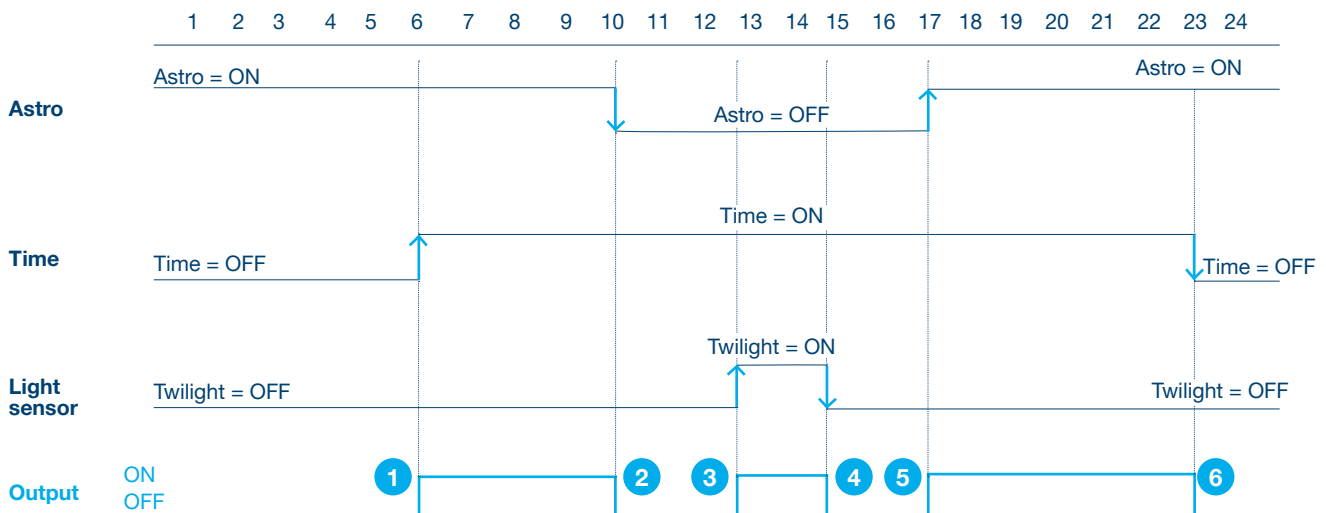


### Transfer of data with myHager

After programming, data can be shared with colleagues via Hager Cloud. You can also transfer editing and access rights to the customer.

# Logical control and connections.

By combining the Astro function, light and time at one output, logic control and connections can easily be created.



- 1 When time event ON and Astro state ON = output ON
- 2 When Astro state OFF = automatically OFF
- 3 When Astro state Off and time event ON, and light sensor ON (brightness less than 100 lux, e.g. during a storm) = light On
- 4 When Astro state Off and time event ON, and light sensor switch OFF = light OFF
- 5 When Astro state ON and time event ON = light ON
- 6 When time event OFF = automatically OFF

**Weekly time switch, 1 changeover contact, 16A, 2 space units, digital**



EGN103

Weekly time switch digital 1 channel for time dependent control of equipment. Programmable via app with Bluetooth interface for easy implementation of exception programs or for saving the switching program (with myHager). Temporary and permanent exception control on the device, bar display for quick recognition of daily programming. Automatic summer/winter time change.

- EGK103 programmable with Bluetooth. EGK103 is a kit including EGN103 and EGN003
- EGN103 programmable with Bluetooth key EGN003. Key not supplied
- 1 changeover output
- potential-free switching contact
- button lock using lock key EG004
- programming without voltage supply possible
- compatible with programming key EG005
- automatic summer/winter time change (Daylight savings)
- program cycles: 1 x 7 days
- with screw terminals
- for mounting on DIN top-hat rail
- 5 years power reserve

Technical specifications

Operating voltage	230V (+10% / -15%)
Frequency	50/60 Hz
Contact rating	AC1 $\mu$ 16A 230 V~
Power consumption	0.25W
230 V incandescent and halogen lamps	max. 2300 W
LED lamps	400 W
Fluorescent tubes, compensated // (max. 45 $\mu$ F)	400 W
Fluorescent tubes, uncompensated, series compensated	1000 W
Compact fluorescent lamps	400 W
Number of function channels	1
Number of contacts per channel	2
Shortest switching time	1 min
Number of switching times for On/Off	56
Power reserve	5 years
Accuracy rate	$\pm$ 1.5 s/day
Operating temperature	- 5 ... 45 °C
Conductor cross-section (flexible)	1 ... 6 mm <sup>2</sup>
Conductor cross-section (rigid)	1.5 ... 10 mm <sup>2</sup>
Rail-mounted device (RMD) width	2 units
Number of programs	1
Number of steps	56



EGN003



EGK103





EGN100AU

**Yearly time switch, 1 channel, 10A, 1 space unit, digital**

Digital multifunctional time switch to control loads with commands such as on, off, pulse or cycle, astronomical function that switches connected loads according to the sunrise and sunset times. Programmable via app with Bluetooth interface for easy implementation of exception programs or for saving the switching program (with myHager). Temporary and permanent exception control on the device. The twilight function measures the lighting level via a photocell and switches depending on the measured value. Automatic summer/winter time change.

- integrated Bluetooth connection
- program cycles: daily, weekly, yearly
- 1 changeover output
- with pulse function
- wired input
- button lock
- automatic summer/winter time change (astro mode)
- screw terminals
- for mounting on DIN top-hat rail
- 10 years power reserve

Technical specifications

Operating voltage	230V (+10% / -15%)
Frequency	50/60 Hz
Contact rating	AC1 $\mu$ 10A 230 V~
Power consumption	0.17W
230 V incandescent and halogen lamps	max. 2300 W
LED lamps	400 W
Fluorescent tubes, compensated // (max. 45 $\mu$ F)	400 W
Fluorescent tubes, uncompensated, series compensated	1000 W
Compact fluorescent lamps	400 W
Number of function channels	1
Number of contacts per channel	2
Shortest switching time	1 min
Number of switching times for On/Off	100
Power reserve	10 years
Accuracy rate	$\pm$ 0.25 s/day
Operating temperature	- 5 ... 45 °C
Conductor cross-section (flexible)	0.2 ... 2.5 mm <sup>2</sup>
Conductor cross-section (rigid)	0.2 ... 4 mm <sup>2</sup>
Rail-mounted device (RMD) width	1 unit
Number of programs	5
Number of steps	100



EGN200AU

**Yearly time switch, 2 channels, 16A, 2 space units, digital**

Digital multifunctional time switch to control loads with commands such as on, off, pulse or cycle. Astronomical function that switches connected loads according to the sunrise and sunset times. Programmable via app with Bluetooth interface for easy implementation of exception programs or for saving the switching program (with myHager). Temporary and permanent exception control on the device. The twilight function measures the lighting level via a photocell and switches depending on the measured value. Automatic summer/winter time change.

- integrated Bluetooth connection
- program cycles: daily, weekly, yearly
- 2 changeover outputs
- with pulse function
- programming without voltage supply possible
- button lock
- LC display with lighting
- automatic summer/winter time change (astro mode)
- screw terminals
- for mounting on DIN top-hat rail
- 10 years power reserve

Technical specifications

Operating voltage	230V (+10% / -15%)
Frequency	50/60 Hz
Contact rating	AC1 $\mu$ 16A 230 V~
Power consumption	0.35W
230 V incandescent and halogen lamps	max. 2300 W
LED lamps	400 W
Fluorescent tubes, compensated // (max. 45 $\mu$ F)	400 W
Fluorescent tubes, uncompensated, series compensated	1000 W
Compact fluorescent lamps	400 W
Number of function channels	2
Number of contacts per channel	2
Shortest switching time	1 min
Number of switching times for On/Off	200
Power reserve	10 years
Accuracy rate	$\pm$ 0.25 s/day
Operating temperature	- 5 ... 45 °C
Conductor cross-section (flexible)	0.2 ... 2.5 mm <sup>2</sup>
Conductor cross-section (rigid)	0.2 ... 4 mm <sup>2</sup>
Rail-mounted device (RMD) width	2 units
Number of programs	10
Number of steps	200



EGN400AU

**Yearly time switch, 4 channels, 16A, 2 space units, digital**

Digital multifunctional time switch to control loads with commands such as on, off, pulse or cycle. Astronomical function that switches connected loads according to the sunrise and sunset times. Programmable via app with Bluetooth interface for easy implementation of exception programs or for saving the switching program (with myHager). Temporary and permanent exception control on the device. The twilight function measures the lighting level via a photocell and switches depending on the measured value. Automatic summer/winter time change.

- integrated Bluetooth connection
- program cycles: daily, weekly, yearly
- 4 changeover outputs
- with pulse function
- programming without voltage supply possible
- button lock
- LC display with lighting
- automatic summer/winter time change (astro mode)
- screw terminals
- for mounting on DIN top-hat rail
- 10 years power reserve

Technical specifications

Operating voltage	230V (+10% / -15%)
Frequency	50/60 Hz
Contact rating	AC1 $\mu$ 16A 230 V~
Power consumption	0.45W
230 V incandescent and halogen lamps	max. 2300 W
LED lamps	400 W
Fluorescent tubes, compensated // (max. 45 $\mu$ F)	400 W
Fluorescent tubes, uncompensated, series compensated	1000 W
Compact fluorescent lamps	400 W
Number of function channels	4
Number of contacts per channel	2
Shortest switching time	1 min
Number of switching times for On/Off	400
Power reserve	10 years
Accuracy rate	$\pm$ 0.25 s/day
Operating temperature	- 5 ... 45 °C
Conductor cross-section (flexible)	0.2 ... 2.5 mm <sup>2</sup>
Conductor cross-section (rigid)	0.2 ... 4 mm <sup>2</sup>
Rail-mounted device (RMD) width	4 units
Number of programs	20
Number of steps	400



EGN003

**Bluetooth programming key, for EGN103 time switches**

EGN003 is suitable for the following applications:

- Creating a time schedule via a smart device
- Copying and saving switching programs

Technical specifications

Operating temperature	-5 ... 45 °C
Dimensions	10 x 20 x 30 mm (L x W x H)
Colour	blue



EEN002

**Flush-mounted light sensor (Photoelectric cell)**

With connection cable for EGNxxx range

Technical specifications

Measuring range brightness	5 ... 2000 lx
Operating temperature	-30 ... 60 °C
Probe cable length	1 m
Conductor cross-section	2 x 0.75 mm <sup>2</sup>
Cable length between light sensor and timer	max. 100 m



EEN003

**Wall-mounted light sensor (Photoelectric cell)**

Technical specifications

Measuring range brightness	5 ... 2000 lx
Operating temperature	-5 ... 45 °C
Conductor cross-section	0.75 ... 4 mm <sup>2</sup>
Colour	light grey
Cable length between light sensor and timer	max. 100 m
IP Rating	IP54



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