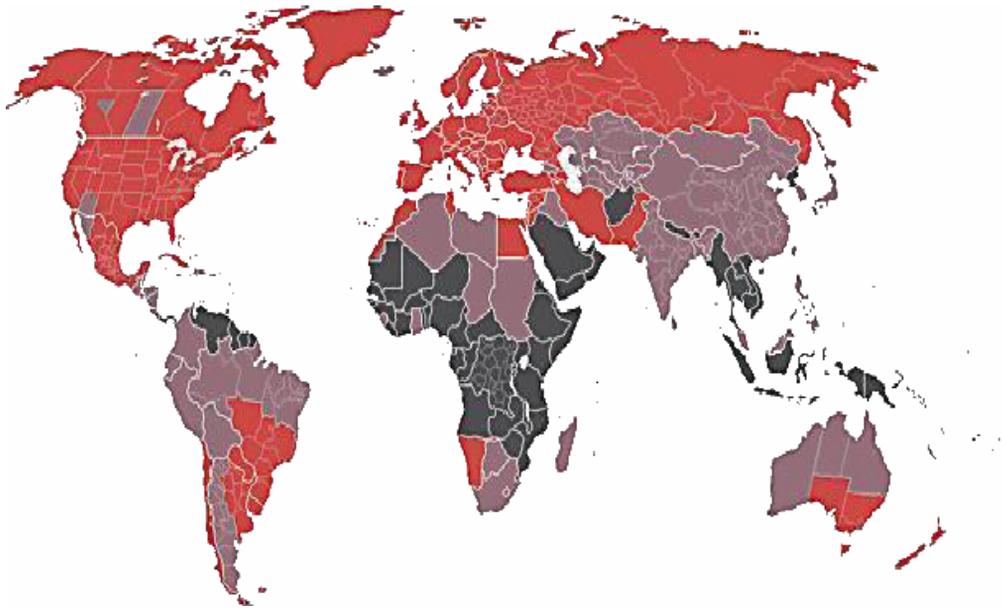


Timeclock Automation Information



- With Helvar 910, 924 & 920
- Time, Date & Year
- Automatic Scene Changes
- Dynamic Control In Specified Time Frame
- Summer & Winter Time
- Latitude & Longitude giving True Dawn & Dusk

Further Reading:

Data Sheet	D004411
	D004441
Installation Sheet	7860172
	7860137
	7860183
User Guide	TP924

Overview

Timeclock automation allows maximum efficiency by ensuring that the lighting levels are set correctly for the coming time period. It can be as simple a requirement as switching the external lighting on at the approach of dusk, or operating as a time condition to change the building dynamics.

Time functions can be set up to operate on a daily, weekly or annual basis. It is also possible to be date specific for a singular event such as the grand opening of a public building.

The timeclock allows for summer and winter time adjustment without the need for operator interference. It also allows geographical position to be set in the system in relation to the latitude and longitudinal positioning for accurate calculation of dawn and dusk times.

Functions

Exact functionality is determined by the desired end effect and is ultimately controlled by the complexity of the programmed logic. Therefore extreme importance should be given to thoroughly planning out the time clock functionality prior to implementation.

For example a museum or office will have strict operational times in relation to when they are open and closed. It is also usual to find that during out of operational hours a cleaners, maintenance or security setting may also be required, sometimes a combination of them all. Planning the automatic change over prior to the start of programming gives an agreed set of guidelines to which all works can be done.

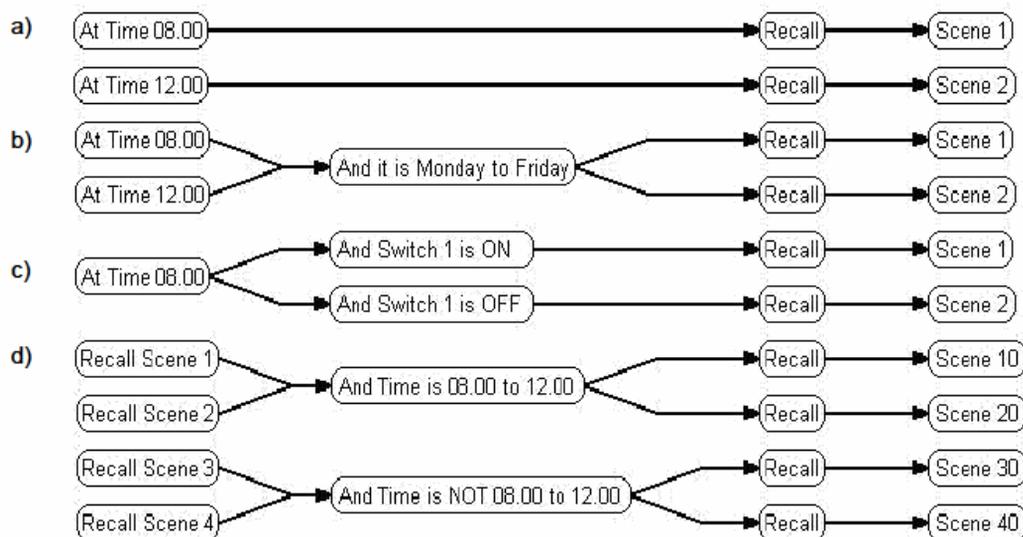
Time based conditions can be implemented to change the building dynamics. For example, a control panel can be programmed to select different levels dependant on time of day. This would be useful where only one panel is allowed but must provide "day" levels at opening times and "night" levels at closed time, typically the closed level being a lower level for energy saving or security camera visualisation.

Dawn & dusk settings are calculated daily at midnight, based on the latitude and longitude settings. This gives a "true" time, when using this value, so that any offsets i.e. 30 minutes before / after are valid.

Control Flow

Typical Flows

- a) Fixed Time Recall
- b) Conditional Day Recall
- c) Conditional Input Recall
- d) Time Based Redirection



Contact your local Helvar representative or visit us online at www.helvar.com
 Due to a policy of continuous improvement, Helvar reserve the right to alter specifications without notice at any time.