

Intelligent Ripple Control Receiver LCR600

Multifunctional all-purpose receiver with 1 to 6 pluggable relays.

The LCR600 is a high-quality ripple control receiver including switch clock. It can be used in standard ripple control applications as well as in modern systems with "distributed intelligence" (VERSACOM) as a remotely programmable switch clock.

Optional Supercap and Battery ensure stand alone operability in loss of power scenarios.



LCR600
with 6x25A Relais



Multifunctional
with 1 to 6 pluggable
switching relays



Simple parametrization
in unpowered state



Switch Clock with
calculated Dawntimes
for street light control



Up to 6x 25A or 4x 40A
relais for flexible use
cases.

Functionality

- Processing of all common ripple control protocols (e.g. SEMAGYR, DECABIT, RICON TIC, PULSADIS, etc.) and their specific pulse patterns
- Internal clock with optional buffering by a super cap or a battery, flexible synchroni-sation using 'VERSACOM' protocol
- Switch clock depending on weekdays, with remote parameterisation using the 'VERSACOM' protocol (DIN 43861-301)
- Switch clock for a year with calculated dawn and dusk times for street light control (option)
- Programming and test via the electrical interface (USB) is possible without the 230VAC power supply
- Signal absence sensing, detection of transmitter failures
- The receiver is designed to accommodate up to 6 change over relays 25A pluggable or alternatively up to 4 relays normally open 40A pluggable. Also combinations of both relay types are possible.
- Anti-Tampering and supervision
 - Automatic refreshing of relay positions every 60 seconds
 - Counter for number of switching actions per relay
 - Log file for storage of pulse pattern and signal levels of last telegrams received (minimum 10 telegrams)
 - Log file for storage of events (power failure, low network frequency, signal absence)
- Parametrisation and enlarged log-file memory capacity with EEPROM Modules (option)
- Cyclic switching function
- Switching delay (1 s – 24 h)
- Passing contact function (1 s –24 h)
- Logical interconnection of relays
- Optical interface according to IEC 62056-21 (option)
- User friendly programming tool LCRSet6 for all receivers of the LCR family.

Technical Data

subject to changes

Power Supply	Voltage Un Frequency of power supply Lightning impulse strength	230V + 15% ... - 20% 50Hz +2%...-2% 6kV 1,2/50 according to DIN EN 61 000-4-5
Filter Data	Audio Frequency Selection of audio frequency Minimum respond signal voltage Non respond signal voltage Maximum signal level	158 Hz – 1600 Hz any frequency can be set Uf > 0.5 % Un Unf < 0.3 % Un or according to agreement 8-15-times Uf (dep. on frequency)
Real Time Backup	Supercap Battery Time Deviation	48 h without power 3 years without power at 25 °C, Lifetime 10 years (powered) < 2 s/day
Output Data	Number of Relays Nominal switching voltage Uc Nominal switching current Ic Relays type (status a/b programmable) Terminal Size	1 to 6 / 1 to 4 (bistable) 250V, 50Hz or 60Hz (100V as option) 25A / 40A at cos phi = 0,4 .. 1 25A change over contacts 40A normally open floating contacts for 2x 2,5 mm ² or 1x 4 mm ² / 1x 6 mm ²
Climate Conditions	Operating Temperature Storage Temperature	-20... + 60 °C -30... + 60 °C, non condensating
Housing	according to DIN 43861 part 2 (for installations on a meter panel or via terminal adapter to a meter) The receiver is prepared to be mounted on a DIN-Rail (optional adapter necessary) Protection class	 IP53
Dimensions	H = 175 mm, W = 107 mm, D = 80 mm	

Connection Diagram

