# RADIO RIPPLE CONTROL RECEIVER

Landis+Gyr Radio

# **FTY233**

# TECHNICAL DATA



#### **Electrical Data**

Nominal Voltage U <sub>n</sub>	230 V (+/-10%)
Nominal Frequency f <sub>n</sub>	50Hz (+/-2%)
Power consumption (typically)	1.2 W / 1.6 VA

#### **Output Relays**

Number	up to 3 plug-in power relays

Contact	Rating	(Change	Over)
Contact	Nathig	CHAINGE	OVCI)

$cos\phi = 1$	250 V / 25 A
$cos\phi = 0.4$	250 V / 15 A

Total Current I<sub>tot</sub> 50 A

## **Radio Ripple Control Systems**

Protocol Semagyr-Top acc. to E-DIN 43861-402

Reception Frequency 129.1 kHz, 139 kHz or 135.6 kHz

Reception Level He from 55 dBµV/m

## **Receiver Functionality**

- Remote programmable time lines allow autonomous switching
- Special days and public holidays programmed
- Real time calendar clock (can also be employed as a radio time switch)
- Unique unit coding
- Interpreter programs allowing any allocation of commands and addresses to relays and conditional routines
- Up to 16 programs can run in parallel. Four of which can be with timing functions. (Delays, Wiper, Loop, etc.)
- Internal lighting-up time table for street lighting
- Relay status confirmation selectable for any interval
- Behaviour during power outage and after power return can be programmed
- Transmitter outage recognition
- Programmable test functions
- Reception quality overview can be read out
- Light emitting diode to signal the operational status
- Optional clock module for operating without radio reception.

#### **Environment**

Temperature	
Operating	-20 to +60°C
Storage	-30 to +70°C

Humidity according to DIN 40040 F

Protection from dust and water

Standard installation IP 52 without UP Horizontal installation acc. to User Manual

#### **Surge Withstand**

Test voltages 4 kV 50 Hz; 1min.

Surge Voltage Strength 6 kV; 1.2/50 µs

Insulation 4 kV

#### Over Voltage Category

antenna)

Protection Class II according to IEC 62052-11 by correct installation



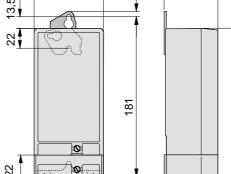
2

Pollution degree

Receiver with short terminal cover (4 479 5861 0)

Dimensions drawings (receiver with integrated





#### **Standards**

**EMC Emission** 

EN 50081-1

EN 61000-6-3, for living ambiance

**EMV Immunity** 

EN 50082-2

EN 61000-6-2, for industrial ambiance

Safety Regulations

EN 61010

Standard for electronic ripple control receivers for tariff and load control IEC 62054-11

IEC 62052-21

#### **Connections**

Phase conductor

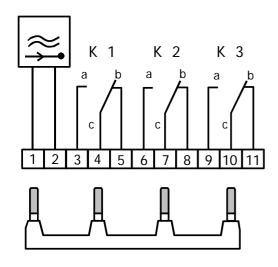
cross section

0.5 mm<sup>2</sup>...6 mm<sup>2</sup>

Relay conductor

cross section change-over contacts 0.5 mm<sup>2</sup>...6 mm<sup>2</sup>

# Wiring Diagram



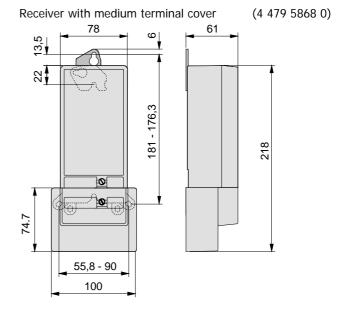
Phase link for connection of L with relay levers for K1-K3 (Order no. 4 422 1625 0).

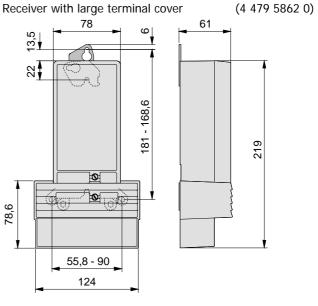
# Weight and Dimensions

Weight fully equipped

0.7 kg

# 13,5 22 0 55,8

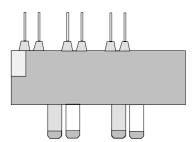




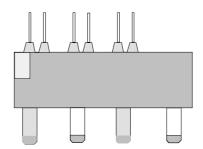


# Candelabra adapter according to DIN 43861

Form A 4 408 5205 0



Form B 4 408 5206 0 a



## **Programming**

- Programming software RPT01 for PC operating under Windows 95, 98, NT, XP and 2000.
- Free and flexible programming of the receiver behaviour using interpreter programs. Up to 24 Flags can form additional conditions or priorities. Eight flags are non-volatile and remain stored during a power outage, a further 8 flags are remote programmable TOP-Flags.
- Programming and parameter entry via an infrared interface according to IEC 62056-21 with adapter FDC1.3 (optical) or adapter RCA104 (without mains connection) for parameter entry from a Laptop and simulation of the radio messages.
- Service software for Pocket PC. Parameter files can be transferred to all Landis+Gyr receivers via the infrared interface.





Subject to technical changes

Landis+Gyr AG

Feldstrasse 1 CH – 6301 Zug Switzerland

Phone: +41 41 935 6000 www.landisgyr.com

Landis \_ |Gyr