

RFXtrx USB RF transceiver User guide



www.rfxcom.com

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2. RFXtrx general information

The RFXtrx transceivers and RFXrec receivers are communicating over an USB port with the Home Automation application. The RFXtrx/rec is powered by the USB port.

At startup the RFXtrx enters for 2 seconds the boot loader (red LED is on) and after this it starts the receive/transmit firmware. If valid (decode-able) packets are received the yellow LED will blink.

The RFXtrx315 and the RFXrec433 are mainly for use in the US. The RFXtrx315 can receive US X10 lighting and security sensors **or** US Visonic PowerCode sensors at 315MHz.

The RFXrec433 can receive weather sensors of different brands at 433.92MHz.

The RFXtrx433 is a transceiver (transmitter+receiver) and can receive and control a large number of sensors and other devices.

The RFXtrx433E is an extended RFXtrx433 transceiver.

Note: the listed protocols and brands are supported!

2.1. RFXtrx315 supported protocols

2.1.1. RFXtrx315 configured for 310MHz

Protocol	Protocol	receive	transmit
US X10 lighting	X10	Υ	Υ
US X10 security	X10	Υ	Υ

2.1.2. RFXtrx315 configured for 315MHz

Protocol	Protocol	receive	transmit
Aoke relay			
- http://www.aliexpress.com/store/product/whose-sale-prices-DC12V10A-Learning- Code-Wireless-Remote-Control-Switch-System-1-Receiver-and-1- Transmitter/1211856 1774391429.html	Lighting5	-	Y
PT2262, EV1527 and compatibles	Lighting4	Υ	Υ
Keeloq (unencrypted part only)	Keeloq	Υ	-
Visonic CodeSecure (unencrypted part only)	Visonic	Υ	-
Visonic PowerCode	Visonic	Υ	Υ

2.1.3. RFXtrx868X

Protocol	Protocol	receive	transmit
FS20	-	Υ	Υ
Itho CVE RFT	-	-	Υ
Keeloq (unencrypted part only)	Keeloq	Υ	Υ
Visonic CodeSecure (unencrypted part only)	Visonic	Υ	-
Visonic PowerCode	Visonic	Υ	-

2.2. RFXrec433, RFXtrx433, RFXtrx433E supported protocols

2.2.1. By function

2.2.1. By function
Curtains, shades, projection screen, awning, gate openers
A-OK blind motors (RF01,AC114,AC123 controlled) - http://www.motorisationplus.com/
ASA ETR blind motors - http://www.asa-mingardi.org/en/home.php
ASP blind motors - http://www.asp-distribution.com/site%20volet/voletrenovation.aspx
BOFU blind motors - http://www.bofumotor.com/
BTX blind motors, remote, part# 490.2076 – http://www.btxinc.com
Brel blind motors - http://www.brel-motors.nl/webshop/motoren/
Chamberlain CS4330CN http://www.chamberlain24.de/epages/es122868.sf/en_GB/?ObjectPath=/Shops/es122868/Products/RA4336
Confexx CNF24-2435
Dolat DLM-1 controlled motors - http://www.dolat.com.cn/product1.asp?id=538
Dooya blind motors, remotes tested: DC305,DC306,DC307,DC313,DC1650,DC1651
Ematronic - http://www.ematronic.com/moteurs-volet-roulant/
ESMO blind motors
Forest blind/curtain motors - http://www.forestgroup.nl/index_nl.html
Harrison curtain – http://www.harrison.nl/home2.htm
Hasta blind motors - http://www.hasta.se/
JVS screens - http://www.screen-discount.nl/
Kingpin KP100 projection screen
Louvolite one touch motorised blinds
Luxaflex (RFXtrx433E only) - http://www.luxaflex.se/produkter/luxaflex/rullgardiner/
Media Mount Projector screen
Motolux - http://www.motolux.com.au/
Proluxx projection screen
Quotidom - http://www.quotidom.com/moteur-tubulaire-radio-quotidom-10-ou-20-nm-volet-roulant-ou-store-banne.html
RAEX blind motor (YR1326 controlled)
RohrMotor24 RMF blind motors - http://www.rohrmotor24.eu/rohrmotor24
RollerTrol blind motors - http://rollertrol.com/
Screenline motors - http://www.screenline.cz/en/
Simu (RFXtrx433E only) – http://www.simu.com/
Somfy (RFXtrx433E only) – http://www.somfy.co.uk/
Support blind motors

YOODA blind motors - http://www.sukcesgroup.pl

Temperature, humidity, weather sensors

Alecto - WSD10,WS1200, WS1700, WS3500, WS4500

Auriol – H13726

Banggood - SKU174397

http://www.banggood.com/433MHz-Wireless-Weather-Station-Digital-Thermometer-Humidity-Sensor-p-965559.html

Cresta

Digimax

Hama - EWS1500

Hideki weather sensors

Honeywell - TF-ATS34C

Inovalley SM80 with plant probes - http://www.inovalley.com/detail.php?item_id=289

La Crosse

Lexibook - SM883

Marquant 943134

Maverick ET-732, ET-733 BBQ/Smoke temperature

Meade – TS33F-M, TS34C-M http://www.meade.com/products/weatherstations/sensors.html

Meteoscan - W155, W160

NEXUS - 1008T

mi.sol WH2 http://www.ebay.com/itm/Transmitter-for-Wireless-Weather-Station-wireless-temperature-sensor-/121664060899

Opus XT300 /Imagintronix Soil sensor http://www.plantcaretools.com/en/webshop/wireless-moisture-sensor-en-detail http://www.ebay.co.uk/itm/Wireless-Soil-Moisture-Sensor-/251380900939?pt=UK Home Garden Garden Plants Fertiliser CV&hash=item3a8778244b

Oregon Scientific / Huger

Prego P-8426 http://www.sunmarket.fi/tuote.asp?TID=11990

Proove -TSS320 & TSS330 fridge/freezer thermometer & outdoor sensors 311346,311501

RFXSensor

RUBICSON – stektermometer 48659, 48695 -pool sensor p48019

Sunvic TLX1206

Sunvic TLX7506

TechnoLine/ProficeII http://www.elv.de/output/controller.aspx?cid=74&detail=10&detail=27621 - TX95-TH

TFA

UPM/Esic (very short receiving range)

Ventus - WS155

Vikina

WT0122 pool thermometer

Xiron -EN6

Door/window, smoke and other security sensors

Aidebao security

Alecto - SA30, SA33 smoke detector

AliExpress sensors with EV1572 or PT2262 (PT2262 is preferred)

Atlantic security

Chacon KD101 smoke detector

Chuango security

Eminent security

Flamingo KD101 smoke detector FA20RF, FA21RF

Focus

Kerui security

Meiantech security

NEXA KD101 smoke detector

Renkforce RF101 smoke detector

Smartwares RM174RF smoke detector

Oregon MSR939 https://www.redealer.de/multimedia/home-living/wetterstationen/bewegungssensor-msr939/a-200667/

Visonic CodeSecure

Visonic PowerCode

X10 security

Appliance modules, dimmers,	relavs.	. LED	controllers
-----------------------------	---------	-------	-------------

ANSLUT (learning mode)

Aoke relay http://www.aliexpress.com/store/product/whose-sale-prices-DC12V10A-Learning-Code-Wireless-Remote-Control-Switch-System-1-Receiver-and-1-Transmitter/1211856 1774391429.html

Avantek

ByeByeStandBy

Blyss lighting - http://www.castorama.fr/store/Prise-telecommandee-et-telecommandee-BLYSS---Interieur-prod4470026.html

Brennenstuhl

Chacon - http://www.chacon.be/

CoCo - http://www.coco-technology.com/en/home/

Conrad RSL2 - http://www.conrad.com/ce/en/product/640466/FUNK-STECKDOSENSCHALTER-RSLR2

Cotech Smarthome

Cranenbroek

DI.O - http://www.di-o.be/

DomiaLite

Ebode

ELRO AB400/AB600 - http://www.elro.eu/en/products/cat/home-automation/home-control1

Energenie ENER010 – 429.935, 5-gang 429.950 - https://energenie4u.co.uk/

Etekcity -http://etekcity.com/p-300-5-pack-wireless-remote-control-outlet-switch-set-with-2-remote-controls-zap-5lx.aspx

Eurodomest NL - Action

Everflourish EMW100

Flamingo

Flamingo FA500D FA500DSS

Flamingo Smartwares SF501

Home Confort – http://www.home-confort.net/en

HomeEasy EU - http://www.elro.eu/en/products/cat/home-automation/

HomeEasy UK (including HE105 relay) - http://www.homeeasy.eu/

HQ COCO-20

Ikea Koppla

Impuls – NL – Action

Intertechno - http://www.intertechno.at/

Kambrook RF3672 - http://www.bunnings.com.au/kambrook-4-piece-indoor-powerpoint-kit-with-remote-control_p7030054

KlikAanKlikUit - http://www.klikaanklikuit.nl/home/

 $\textbf{Legrand CAD radio} - \underline{\textbf{http://docdif.fr.grpleg.com/general/legrand-fr/NP-FT-GT/FA181DFR.pdf}}$

LightwaveRF - http://www.lightwaverf.co.uk/

Livolo - http://www.livolo-france.com/fr/ http://nl.aliexpress.com/w/wholesale-livolo-touch-switch.html

Maplin http://www.maplin.co.uk/p/remote-controlled-mains-socket-set-single-n78ka (use Lighting1 - COCO GDR2)

MDremote LED dimmer V106, V107, V108, EKAB-10KRF - www.ultraleds.co.uk

- http://www.ledstripkoning.nl/accessoires/dimmers-wit/draadloze-dimmer-10-knops-rf/

Mercury appliance modules - http://mercury.avsl.com/product?range=ME5124

NEXA - http://www.nexa.se/

ORNO

OTIO

Phenix

Philips SBC SP370 series

PROmax

Proove - http://proove.se/

RGB LED strip driver dx.com - http://www.dx.com/ order nbr: 130913 (new TRC02 not supported), 67412

RisingSun

Sartano

Siemens (UK)

SilverCrest 91089

SilverCrest 60494

Unitec 48110 EIM 826

Waveman

X10 RTS10 / RFS10

X10 lighting	
Xdom	

Remotes
ATI Remote Wonder
ATI Remote Wonder Plus
ATI Remote Wonder II
SEAV TXS4
X10 PC Remote

Chimes
1byOne Easy Chime
Byron SX chime - http://www.chbyron.eu/Byron/ByronSXRange/68/89/
Byron MP001
Chacon
Envivo – ENV1348
HomeEasy
KlikAanKlikUit
Profiles PAC-326R Belcanto
SelectPlus200689101 & SelectPlus200689103 (Action NL)

Power, gas water metering
Cartelectronic TIC and Encoder - http://www.cartelectronic.fr/
cent-a-meter
Electrisave
OWL CM113, CM180, CM119, CM160, CM180, CM180i - http://www.theowl.com/
Revolt NC5461 - http://www.pearl.de/a-NC5462-5452.shtml
RFXMeter

Specials
1byone Wireless Home Security Driveway Alarm http://www.1byone.co.uk/Home-Security/Alarms/O00QH-0511
DEA receivers http://www.deasystem.com/en/accessory/7/receivers (unencrypted only)
Lucci Air Fan - http://www.lucciair.com/
MCZ pellet stove
Mertik Maxitrol – Fire Place controllers
Oregon Scientific Body weight scales – BWR101, BWR102, GR101
Prego P-8426 – sauna temperature sensor http://www.sunmarket.fi/tuote.asp?TID=11990
Smartwares radiator valve http://www.homewizard.nl/smartwares-draadloze-radiatorkraan.html
Siemens SF01 - LF959RA50/LF259RB50/LF959RB50 extractor hood
Wave Design extractor hood
X10 Ninja/Robocam – camera motor

2.2.2. Alphabetic list

Important notes:

- Ext and Ext2 firmware will not operate in the RFXtrx433.
- RFXrec firmware is equal to RFXtrx433 Type1 firmware without the transmit functions.
- Protocol enabling is only necessary for receive. Transmit protocols are always enabled.

Device	Type 1	Type 2	Ext	Ext2	Protocol	rec	xmit
1byone Driveway Alarm							
- http://www.1byone.co.uk/Home-Security/Alarms/O00QH- 0511	-	Y	Υ	Y	ByronSX	Υ	Υ
1byone Easy Chime	_	Υ	Υ	Υ	ByronSX	Υ	Υ
A-OK blind motors RF01					•		
- http://www.motorisationplus.com/	Y	Υ	-	Υ	BlindsT2	Υ	Υ
A-OK blind motors AC114,AC123	Υ	Υ	_	Υ	BlindsT3	Υ	Υ
- http://www.motorisationplus.com/	Y		Υ	-		Y	-
Alasta SA20 SA22 ample detector	Y	Υ	Y	Υ	Meiantech	Y	Y
Alecto – SA30, SA33 smoke detector	Y	- Y	Y	- Y	Oregon	Y	Y
Alecto – WS1200	-	Y	Y	Y	LaCrosse	Y	-
Alecto – WS1700 and compatibles, WS3500, WS4500	-	-		Y	Rubicson	Y	-
Alecto – WSD10	- Y	- Y	- Y	Y	Rubicson	Y	- Y
ANSLUT (learning mode) Aoke relay	Ť	Ť	Ť	Ť	AC	Ť	Ť
- http://www.aliexpress.com/store/product/whose-sale- prices-DC12V10A-Learning-Code-Wireless-Remote-Control-	Υ	Υ	Υ	Υ	Lighting5 Aoke or Lighting1 ARC	N	Υ
Switch-System-1-Receiver-and-1-					or Lighting FARO		
<u>Transmitter/1211856_1774391429.html</u>							
ASA ETR blind motors - http://www.asa-mingardi.org/en/home.php	-	-	Υ	Υ	RFY	N	Υ
ASP blind motors - http://www.asp-					D		
distribution.com/site%20volet/voletrenovation.aspx	Υ	Υ	-	Υ	BlindsT11	Υ	Υ
ATI Remote Wonder	Υ	-	-	-	ATI	Υ	Υ
ATI Remote Wonder Plus	Υ	-	-	-	ATI	Υ	Υ
ATI Remote Wonder II	Υ	_	_	_	ATI	Υ	_
(only available in hardware version 1.0)							
Atlantic security	Υ	Y	Υ	Υ	Meiantech	Υ	Υ
Auriol H13726	-	-	Υ	Υ	Rubicson	Υ	-
Auriol Z31055B-TX	-	-	-	Υ	Rubicson	Υ	-
Avantek	_	_	Υ	Υ	Lighting5	Y*	Υ
					*Lighting4	_	
Banggood - SKU174397	-	-	Y	Y	Rubicson	Y	-
ByeByeStandBy	Υ	Υ	Υ	Υ	ARC	Υ	Υ
Byron SX chime - http://www.chbyron.eu/Byron/ByronSXRange/68/89/	Υ	Υ	Υ	Υ	ByronSX	Υ	Υ
Byron MP001 chime			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ <u>/</u>	Chime	N.	\ <u>/</u>
,	-	-	Υ	Υ	Byron MP001	N	Υ
Blyss lighting	Υ	Υ	Υ		۸⊏	Υ	Υ
- http://www.castorama.fr/store/Prise-telecommandee-et- telecommande-BLYSSInterieur-prod4470026.html	ĭ	Ť	Ť	-	AE	Ť	Ť
BOFU blind motors							
- http://www.bofumotor.com/	Υ	Υ	Υ	Υ	BlindsT0	Y*	Υ
* = receive only in Type2 used to get the remote ID.					11111		
Brennenstuhl	Υ	Υ	Υ	Υ	Lighting4	Υ	Υ
Brel blind motors – http://www.brel-motors.nl/webshop/motoren/	Υ	Υ	Υ	Υ	BlindsT6	N	Υ
BTX blind motors, remote, part# 490.2076					D!: 1 T0		
- http://www.btxinc.com	-	Υ	-		BlindsT9	N	Υ
Cartelectronic TIC and Encoder	_	_	_	Υ	ATI/cartelectronic	Υ	Ζ
- http://www.cartelectronic.fr/	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			'			14
cent-a-meter	Υ	Υ	Υ	-	Oregon	Υ	-
Chacon (learning mode)	Υ	Υ	Υ	Υ	AC	Υ	Υ
- http://www.chacon.be/ Chacon (with address code wheels)	Υ	Υ	Υ	Υ	ARC	Υ	Υ
Chacon EMW200					Lighting1		
Ondoon Elww200	Υ	Υ	Υ	-	EMW200	N	Υ

Chacon 54660 (equal COCO GDR2)	Υ	Υ	Υ	Υ	Lighting1	N	Υ
Chacon KD101 smoke detector	Y	Y	Y	Y	coco gdr2 always on	Υ	Y
Chamberlain CS4330CN http://www.chamberlain24.de/epages/es122868.sf/en_GB/? ObjectPath=/Shops/es122868/Products/RA4336	-	-	Υ	-	BlindsT8	N	Y
Chuango * decoded as X10 in Ext2 firmware	Υ	Υ	Υ	Y*	Lighting4	Υ	Υ
CoCo (learning mode) - http://www.coco-technology.com/en/home/	Υ	Υ	Υ	Υ	AC	Υ	Υ
CoCo (with address code wheels)	Υ	Υ	Υ	Υ	ARC	Υ	Υ
CoCo GDR2 (equal Chacon 54660)	Υ	Υ	Υ	Υ	Lighting1 COCO GDR2	Ν	Υ
Confexx CNF24-2435	-	-	-	Υ	BlindsT12	N	Υ
Conrad RSL2 - http://www.conrad.com/ce/en/product/640466/FUNK- STECKDOSENSCHALTER-RSLR2	Υ	Υ	-	Υ	RSL	Υ	Υ
Conrad RSL sensors	-	Υ	-	-	RSL	Υ	Υ
Conrad RSL2 motion/door-window sensors	-	Υ	-	-	RSL	Υ	Υ
Cotech Smarthome	-	-	-	Υ	Lighting4 + AC	Υ	Υ
Cranenbroek	Υ	Υ	Υ	Υ	Lighting1 Impuls	Ν	Υ
Cresta - TX-320, TS34C, anemometer, UV sensor, rain sensor	Υ	Υ	Υ	Υ	Hideki	Υ	-
DEA receivers (unencrypted) http://www.deasystem.com/en/accessory/7/receivers	-	-	Υ	-	KeeLoq	Υ	Υ
Digimax	Υ	Υ	Υ	-	X10	Υ	-
DI.O (learning mode)	Υ	Υ	Υ	Υ	AC	Υ	Υ
- http://www.di-o.be/ DI.O (with address code wheels)	Y	Υ	Y	Υ	ARC	Υ	Y
Dolat DLM-1 controlled motors						-	Y
- http://www.dolat.com.cn/product1.asp?id=538	-	Υ	-	-	BlindsT10	N	-
DomiaLite (with address code wheels)	Υ	Υ	Υ	Υ	ARC	Υ	Υ
Dooya blind motors, emulate remotes: DC305,DC306,DC307,DC313,DC1650,DC1651	Υ	Υ	Υ	Υ	BlindsT6	Ν	Υ
Ebode	Υ	Υ	Υ	Υ	X10	Υ	Υ
Electrisave	Υ	Υ	Υ	-	Oregon	Υ	-
ELRO AB400 - http://www.elro.eu/en/products/cat/home-automation/home-control1	Υ	Υ	Υ	-	Lighting4	Υ	Υ
ELRO AB600	Υ	Υ	Υ	Υ	ARC	Υ	Υ
Ematronic RF01 - http://www.ematronic.com/moteurs-volet-roulant/	Υ	Υ	-	Υ	BlindsT2	Υ	Υ
Ematronic AC114, AC123 - http://www.ematronic.com/moteurs-volet-roulant/	Υ	Υ	-	Υ	BlindsT3	Υ	Υ
Eminent * decoded as X10 in ext firmware	Υ	Υ	Υ	Υ*	Lighting4	Υ	Υ
Energenie - https://energenie4u.co.uk/ - ENER010 – 429.935, 5-gang 429.950	Y	Υ	Υ	-	Lighting1 Energenie Energenie5	N	Y
Envivo – Chime ENV1348	-		Υ	-	Chime Envivo	Ν	Υ
ESMO blind motors	Υ	Υ	Υ	Υ	BlindsT6	N	Υ
Etekcity – http://etekcity.com/p-300-5-pack-wireless-remote-control-outlet-switch-set-with-2-remote-controls-zap-	Υ	Υ	Υ	-	Lighting1 Energenie5	N	Υ
<u>Slx.aspx</u> Eurodomest (NL – Action) * ARC only	Y*	Υ	Y*	Y*	Lighting1 ARC Or Lighting5 Eurodomest	N	Υ
Everflourish EMW100	Υ	Υ	Υ	-	Lighting5 EMW100	N	Υ
Flamingo	Υ	Υ	Υ	Υ	Lighting4	Υ	Υ
Flamingo FA500D FA500DSS	-	-	-	Υ	IT	Ν	Υ
Flamingo KD101 smoke detector FA20RF, FA21RF	Υ	Υ	Υ	Υ	always on	Υ	Υ
Flamingo Smartwares SF501	Υ	Y	Y	Y	Lighting2 - AC	Υ	Y
Focus	Υ	Υ	Υ	Υ	Meiantech	Υ	Υ

Forest blind/curtain motors - http://www.forestgroup.nl/index_nl.html	Υ	Υ	Υ	Υ	BlindsT7	N	Υ
HAMA EWS1500	-	-	Υ	Υ	Rubicson	Υ	-
Harrison curtain - http://www.harrison.nl/home2.htm	Υ	Υ	Υ	Υ	Curtain Harrison	N	Υ
Hasta new blind motors - http://www.hasta.se/ * = receive only in Type2 used to get the remote ID.	Υ	Υ	Υ	Υ	BlindsT0	Y*	Υ
Hasta old blind motors	Υ	Υ	-	-	BlindsT1	Υ	Υ
Hideki weather sensors	Y	Y	Υ	Υ	Hideki	-	-
Home Confort lighting - http://www.home-confort.net/en	-	-	Υ	-	HomeConfort	Υ	Υ
HomeEasy EU (learning mode) - http://www.elro.eu/en/products/cat/home-automation/	Y	Υ	Υ	Υ	HE EU	Υ	Υ
HomeEasy UK – HE105 - http://www.homeeasy.eu/	Υ	Υ	Υ	Υ	Thermostat2 HE105	N	Υ
HomeEasy UK (learning mode)	Υ	Υ	Υ	Υ	AC	Υ	Υ
HomeEasy UK (with address code wheels)	Υ	Υ	Υ	Υ	ARC	Υ	Υ
Honeywell - TF-ATS34C	Υ	Υ	Υ	Υ	Hideki	-	-
HQ COCO-20	-	-	Υ	Υ	Lighting1 HQ COCO20	N	Υ
Ikea Koppla	Υ	-	-	-	Lighting3	N	Υ
Impuls (NL – Action)	Υ	Υ	Υ	Υ	Lighting1 Impuls	N	Υ
Inovalley SM80 with plant probes - http://www.inovalley.com/detail.php?item_id=289	-	-	Υ	Y	Rubicson	Υ	-
Intertechno (learning mode) - http://www.intertechno.at/	Υ	Υ	Υ	Υ	AC	Υ	Υ
Intertechno (with address code wheels)	Υ	Υ	Υ	Υ	ARC	Υ	Υ
JVS screens - http://www.screen-discount.nl/	Υ	Υ	Υ	Υ	BlindsT6	N	Υ
Kambrook RF3672 – http://www.bunnings.com.au/kambrook-4-piece-indoor-powerpoint-kit-with-remote-control p7030054	-	Υ	Υ	-	Lighting2 Kambrook	N	Υ
Kerui security * decoded as X10 in Ext2 firmware	Υ	Υ	Υ	Y*	Lighting4	Υ	Υ
Kingpin KP100 projection screen	Υ	Υ	Υ	Υ	Lighting4	N	Υ
KlikAanKlikUit (learning mode) - http://www.klikaanklikuit.nl/home/	Υ	Υ	Υ	Υ	AC	Υ	Υ
KlikAanKlikUit (with address code wheels)	Υ	Υ	Υ	Υ	ARC	Υ	Υ
La Crosse - TX2, TX3, TX3P, TX4, TX7, TX17, WS2300	Υ	Υ	Υ	Υ	LaCrosse	Υ	-
Legrand CAD radio	-	-	Υ	-	Lighting5 LeGrand CAD	-	Υ
Lexibook - SM883	Υ	Υ	Υ	Υ	Hideki	Υ	-
LightwaveRF - http://www.lightwaverf.co.uk/	Υ	Υ	Υ	Υ	AD	Υ	Υ
Livolo - http://www.livolonederland.nl/ - http://www.livolo-France.com/fr/ - http://nl.aliexpress.com/w/wholesale-livolo-touch-switch.html	Y	Υ	Y	Y	Lighting5 Livolo	N	Y
Louvolite one touch motorised blinds * = receive only in Type2 used to get the remote ID.	Υ	Υ	Υ	Υ	BlindsT0	Y*	Υ
Lucci Air fan – http://www.lucciair.com/	-	-	Υ	-	Fan LucciAir	N	Υ
Luxaflex – http://www.luxaflex.se/produkter/luxaflex/rullgardiner/	-	-	Υ	Υ	RFY	N	Υ
Maplin http://www.maplin.co.uk/p/remote-controlled-mains-socket-set-single-n78ka	Υ	Υ	Υ	Υ	Lighting1 COCO GDR2	N	Υ
Marquant 943134	† -	Υ	-	-	X10	Υ	-
Maverick ET-732/733 BBQ/Smoke	Υ	Y	Υ	Υ	Hideki	Y	_
temperature MCZ pellet stove	-	Y	Y	-	Thermostat4	-	Y
MDremote LED dimmer V106					Lighting5		
- www.ultraleds.co.uk	Y	Y	Υ	Υ	MDRemote V106	N	Y

MDremote LED dimmer V107 - www.ultraleds.co.uk	Υ	Υ	Υ	Υ	Lighting5 MDRemote V107	N	Υ
MDremote LED dimmer V108, EKAB-10KRF - http://www.ledstripkoning.nl/accessoires/dimmers-	Υ	Υ	Υ	Y	Lighting5 MDRemote V108	N	Υ
wit/draadloze-dimmer-10-knops-rf/					WDRemote v 100		
Meade – TS33F-M, TS34C-M http://www.meade.com/products/weatherstations/sensors.ht	Υ	Υ	Υ	Υ	Hideki	Υ	-
ml Media Mount Projector screen	_	Υ		_	Lighting4	N	Υ
Meiantech security	Y	Y	Y	Y	Meiantech	Y	Y
Mercury appliance modules	-				Lighting1	-	
- http://mercury.avsl.com/product?range=ME5124	Υ	Υ	Υ	Υ	Energenie5	N	Υ
Mertik Maxitrol Fire Place controllers - G6R-H4T1, G6R-H4T5, G6R-H4TD, G6R-H4T16, G6R-H4TB, G6R-H4T21-Z22	Υ	Υ	Y	Υ	Mertik	Υ	Υ
Mertik Maxitrol Fire Place controller - G6R-H4S	Υ	Υ	Υ	Υ	Mertik	N	Υ
Meteoscan W155,W160	-	1	Υ	Υ	Rubicson	Υ	-
Motorlux blinds motor	Υ	Υ	-	Υ	BlindsT3	-	Υ
mi.sol WH2 http://www.ebay.com/itm/Transmitter-for- Wireless-Weather-Station-wireless-temperature-sensor- /121664060899	Y	Υ	Υ	Y	FineOffset	Υ	-
NEXA (learning mode)	Υ	Υ	Υ	Υ	۸۰	Υ	Υ
- http://www.nexa.se/	-			-	AC	_	
NEXA (with address code wheels)	Υ	Υ	Υ	Υ	ARC	Υ	Υ
NEXA KD101 smoke detector	Υ	Υ	Υ	Υ	always on	Υ	Υ
NEXUS	Υ	Υ	Υ	Υ	Hideki	Υ	_
- 1008T		•	-	<u> </u>	1 1100111	•	
Opus XT300 /Imagintronix Soil sensor http://www.plantcaretools.com/en/webshop/wireless- moisture-sensor-en-detail http://www.ebay.co.uk/itm/Wireless-Soil-Moisture-Sensor- /251380900939?pt=UK Home Garden Garden Plants Fert iliser CV&hash=item3a8778244b	Y	Y	Y	Y	XT300	Υ	-
ORNO	Υ	Υ	Υ	Υ	AC	Υ	Υ
Oregon Scientific / Huger BBQ and weather sensors - AW129, AW131, BTHGN129, BTHR918, BTHR918N, BTHR968, EW109, PCR800, RGR126, RGR682, RGR918, RGR928, RTGN318, RTGR328N, RTGR328N, RTGR368N, RTGR383, RTHN318, STR918, STR928, ,TGHN800, TGHN801, THC138, THC238, THC268, THGN122NX, THGN123N, THGN132ES, THGN132N, THGN500, THGR122(N/NX), THGR228(N/NF), THGR238, THGR268, THGR328N, THGR810, THGR918, THGR928, THGRN228NX, THN129, THN132N, THR128, THR138, THR288(N/NF), THRN122N, THWR288A, THWR800, UV138, UVN128, UVN800, UVR128, WGR800, WGR918, WTGR800, WTGR800 Oregon Scientific weighting scales	Y	Y	Y	Y	Oregon	Υ	-
- BWR101, BWR102, GR101 US BWR101, BWR102 in RFXrec	Y	-	Υ	Y	Oregon	Υ	-
Oregon MSR939 https://www.redealer.de/multimedia/home- living/wetterstationen/bewegungssensor-msr939/a-200667/	-	-	Υ	-	Oregon	Υ	-
OTIO Lighting	Υ	Υ	_	Υ	RSL	Υ	Υ
OWL - CM113	Y	Y	Υ		Oregon	Y	
OWL	<u>'</u>	•	-		3.09011	•	
- http://www.theowl.com/ - CM119, CM160, CM180, CM180i	Y	Υ	Υ	Y	Oregon	Υ	-
Phenix	Υ	Υ	Υ	Υ	Lighting4	Υ	Υ
Philips SBC SP370 series	-	Υ	-	-	Lighting1 Philips SBC	N	Υ
Prego P-8426	Υ	Υ	Υ	_	X10	Υ	_
http://www.sunmarket.fi/tuote.asp?TID=11990				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
Profiles PAC-326R Belcanto	Y	Y	Y	Y	ByronSX	Y	Y
Proluxx projection screen	Υ	Υ	Υ	Y	Lighting4	N	Υ
PROmax Proove —TSS320 & TSS330 fridge/freezer thermometer &	1	-	-	Υ	IT IT	Ν	Υ
	-	_	+	'	FineOffset or	1.4	<u> </u>

Quotidom – http://www.quotidom.com/moteur-tubulaire- radio-quotidom-10-ou-20-nm-volet-roulant-ou-store- banne.html	Υ	Υ	Υ	Υ	BlindsT6	N	Υ
RAEX blind motor (YR1326 controlled)	-	Υ	-	-	BlindsT4	Υ	Υ
Renkforce RF101 smoke detector	Υ	Υ	Υ	Υ	always on	Υ	Υ
Revolt NC5461 - http://www.pearl.de/a-NC5462-5452.shtml	-	Υ	-	-	RSL	Υ	-
RFXSensor	Υ	Υ	Υ	Υ	X10	Υ	-
RFXMeter	Υ	Υ	Υ	Υ	X10	Υ	-
RGB LED strip driver dx.com - http://www.dx.com/ order nbr: 130913, (new TRC02 NOT supported) - http://www.dx.com/ order nbr: 67412 * = receive only in Type2 used to get the RGB remote ID.	Y*	Y	Y*	-	AD	Y*	Υ
RGB432W LED controller	Υ	Υ	Υ	-	Lighting5 RGB432W	N	Υ
RisingSun	Υ	Υ	Υ	Υ	Lighting4	Υ	Υ
RUBICSON	Υ		Y	Υ		Υ	-
- stektermometer 48659, 48695 -pool sensor p48019	Y	-	Y	Y	Rubicson	Y	-
RohrMotor24 RMF blind motors - http://www.rohrmotor24.eu/rohrmotor24	Y	Υ	Υ	Υ	BlindsT6	Ν	Υ
RollerTrol blind motors - http://rollertrol.com/ * = receive only in Type2 used to get the remote ID.	Υ	Y	Υ	Υ	BlindsT0	Y*	Υ
Sartano	Υ	Υ	Υ	Υ	Lighting4	Υ	Υ
Screenline motors - http://www.screenline.cz/en/	-	-	-	Υ	BlindsT13	Ν	Υ
SEAV TXS4	-	-	-	Υ	FAN SEAV TXS4	Ν	Υ
SelectPlus200689101 & SelectPlus200689103 (Action NL)	-	Υ	Υ	Υ	ByronSX	Υ	Υ
Siemens SF01 LF959RA50/LF259RB50/LF959RB50 extractor hood	-	Υ	-	-	Fan SF01	N	Υ
Siemens (UK)	Υ	Υ	Υ	Υ	AD	Υ	Υ
SilverCrest 91089	Y	Y	Y	_	Lighting4	Y	Y
SilverCrest 60494	-	-	-	Υ	Lighting4 + AC	Y	Y
Simu / RTS (RFXtrx433E only) – http://www.simu.com/	-	-	Υ	Υ	RFY	N	Υ
Smartwares radiator valve - http://www.homewizard.nl/smartwares-draadloze-	-	-	Υ	Υ	Radiator1 Smartwares	N	Υ
radiatorkraan.html Smartwares RM174RF	-	-	-	Υ	ARC	Υ	Υ
Somfy / RTS - http://www.somfy.co.uk/	-	-	Υ	Υ	RFY	Ν	Υ
Sunpery blind motors	-	Υ	-	-	BlindsT9	N	Υ
Sunvic TLX1206	Υ	Υ	Υ	-	X10	Υ	Υ
Sunvic TLX7506	Υ	Υ	Υ	-	X10	Υ	-
TechnoLine/ProficeII http://www.elv.de/output/controller.aspx?cid=74&detail=10&d etail2=27621 - TX95-TH	Y	-	Υ	Υ	Rubicson	Y	-
TFA - TS15C, TS34C,external temperature sensor 30.3133, anemometer 30.3149, UV sensor, rain sensor 30.3148, pool sensor 30.3160	Y	Y	Υ	Y	Hideki	Υ	-
TFA - pool sensor 30.3056.10, 30.3216.20	-	-	-	Υ	Oregon	Υ	-
UPM/Esic (very short receiving range) - WT260,WT260H,WT440H,WT450,WT450H,WDS500, RG700	Y	-	-	-	Hideki	Υ	-
Unitec 48110 EIM 826	-	_	-	Υ	Lighting4 + AC	Υ	Υ
Ventus WS155	-	-	Υ	Υ	Rubicson	Υ	-
Viking - 02035, 02038, 02811	Υ	Υ	Υ	Υ	FineOffset	Υ	-
Visonic CodeSecure	Υ	Υ	Υ	Υ	Visonic	Υ	-
Visonic PowerCode	Υ	Υ	Υ	Υ	Visonic	Υ	
Wave Design extractor hood	Υ	Υ	Υ	Υ	Fan	N	Υ
Waveman	Y	Y	Y	Y	SF01 Lighting1 Waveman	N	Y

Westinghouse fan 7226640	-	-	-	Υ	Fan	Ν	Υ
WT0122 pool sensor	-	-	Υ	1	FineOffset	Υ	-
YOODA blind motors - http://www.sukcesgroup.pl	Υ	Υ	Υ	Υ	BlindsT6	N	Υ
X10 Ninja/Robocam	-	Υ	-		X10	Υ	Υ
X10 PC Remote	Υ	-	-		X10	Υ	Υ
X10 RTS10 / RFS10	Υ	Υ	Υ	Υ	X10	Υ	Υ
X10 lighting	Υ	Υ	Υ	Υ	X10	Υ	Υ
X10 security	Υ	Υ	Υ	Υ	X10	Υ	Υ
Xdom	Υ	Υ	Υ	Υ	X10	Υ	Υ
Xiron – EN6	Υ	-	Υ	Υ	Rubicson	Υ	-

2.3. undec on

This parameter is for internal use by RFXCOM only!!!

If new sensor types are released they will most probably not be decoded by the RFXtrx firmware. For this reason we have added the option to enable receive of undecoded messages. This function is only to enable RFXCOM to add this new sensor type in the firmware if possible. If "undec on" is enabled in normal use the application will receive a lot of undecoded messages mostly as a result of RF noise or disturbed RF packets.

Important: For normal use "undec on" should be disabled

2.4. Sensitivity influenced by enabled protocols

The sensitivity of the receiver part is highly influenced by the number of protocols enabled. Lesser protocols enabled will make the receiver more sensitive for the enabled protocols.

There are a few protocols that will reduce or even eliminate receiving of other protocols if enabled.

For example:

If the AD (LightwaveRF, Siemens) protocol is enabled it can stop receiving of Meiantech / Atlantic, Oregon 3.0, Visonic and Mertik.

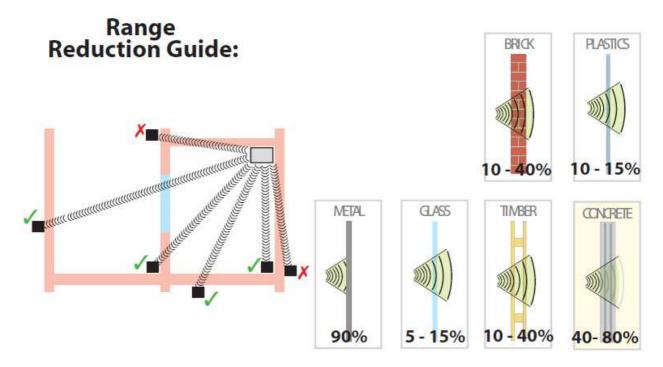
All other protocols are disabled if BlindsT0 is enabled.

	X10	ARC	AC	HomeEasy EU	Meiantech/Atlantic	Oregon 1.0	Oregon 2.1	Oregon 3.0 / OWL	АТІ	Visonic/Keeloq	Mertik	AD (LWRF)	Hideki/UPM	La Crosse	FS20	ProGuard	BlindsT0	BlindsT1/T2/T3/T4	AE (Blyss)	Rubicson/Alecto	FineOffset/Viking	Lighting4	RSL/Revolt	Byron SX	Imagintronix/Opus	HomeConfort
X10																										
ARC																										
AC																										
HomeEasy EU																										
Meiantech/Atlantic																										
Oregon																										
ATI																										
Visonic/Keeloq																										
Mertik																										
AD (LWRF)																										
Hideki/UPM																										
La Crosse																										
FS20																										
ProGuard																										
BlindsT0																										
BlindsT1/T2/T3																										
AE (Blyss)																										
Rubicson																										
FineOffset/Viking																										Щ
Lighting4																										Щ
RSL																										Щ
Byron SX																										
Imagintronix																										
HomeConfort																										

Green = enabled by default

2.5. RF range reduction

The RF signals operating distance is reduced when the signal has to pass through walls.



2.6. Home Automation software

For the list of Home Automation software that supports the RFXtrx see the web site www.rfxcom.com

2.7. Dimensions

The dimensions of the RFXtrx/RFXrec are: 83.5 x 42 x 15 mm Total height from bottom to antenna top is 122mm

The dimensions of the RFXtrx433E are: 83 x 59 x 22 mm Total height from bottom to antenna top is 130mm

2.8. Electrical

The RFXtrx is powered by the 5 Volt of the USB interface.

Operating current;

Receive mode: 28 mA (0.14Watt)

Transmit mode: 45 mA

The RFXtrx Radiated RF power is 10dBm max.

2.9. Environmental conditions

Normal operating: 15°C to 35°C Absolute min-max temperature: -10°C to 55°C

3. Install the USB driver

The RFXtrx has the FTDI FT232R USB interface chip installed.

The USB drivers are available at http://www.ftdichip.com/Drivers/VCP.htm

4. Run RFXflash on Linux under Mono

Open a Terminal screen in Linux (Ctrl-Alt-T)

Execute once:

Install Mono:

[sudo] apt-get install mono-runtime

Install VisualBasic support under Mono:

[sudo] apt-get install libmono-microsoft-visualbasic8.0-cil

If the USB device is created as ttyACMx you will need to create a link between /dev/ttyACMx and a serial port /dev/ttySx.

This is not necessary if the device is created as /dev/ttyUSBx!!

[sudo] In -sf /dev/ttyACM1 /dev/ttyS3

Note: sudo must be entered without brackets []. sudo is required if not running as super user.

Launch the RFXflash.exe program.

[sudo] mono RFXflash.exe

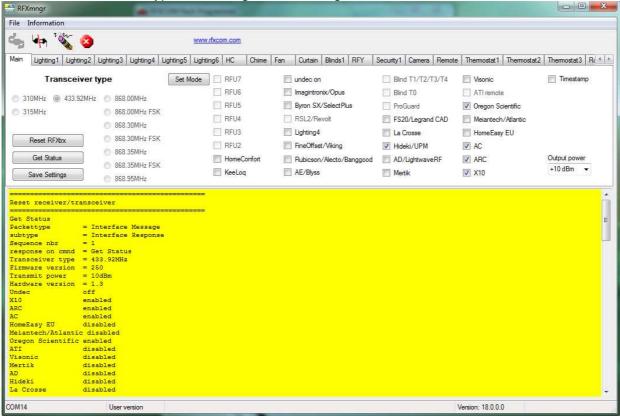
Note: RFXmngr does not operate under mono!

5. RFXmngr test program

The RFXmngr program supports decoding of received data and allows you to transmit commands.

After the connection the RFXmngr program transmits a Reset and Get Status command so that

it will know the RFXtrx type and configuration settings:



Transmitter protocols are always enabled but receiver protocols can be disabled. This is very useful because the receiver will become more sensitive when protocols not used are disabled. So select only the protocols to be used, click **Set mode** and click **Save Settings**.

Note that these settings are lost in Type1 and Type2 firmware after an update and need to be set again.

5.1. Receiver

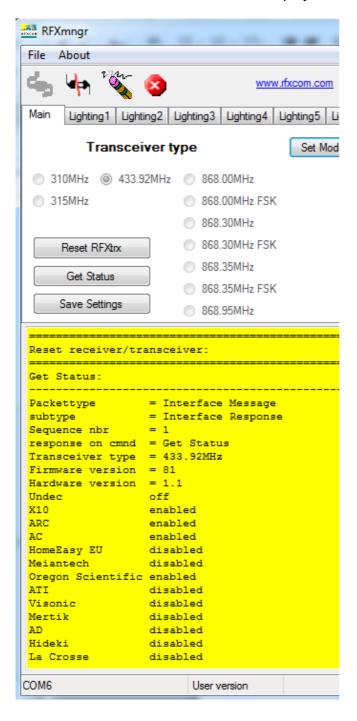
The RF protocols to be received can be configured on the Main tab at **Set Mode**.

Click **Save Settings** to save the selected protocols in non-volatile memory of the RFXtrx. This configuration is now restored every time after a power up.

Note that these settings are lost after a firmware update and need to be set again.

Note: Protocol enabling is only necessary for receive. Transmit protocols are always enabled.

The received RF data is decoded and displayed in the yellow window.



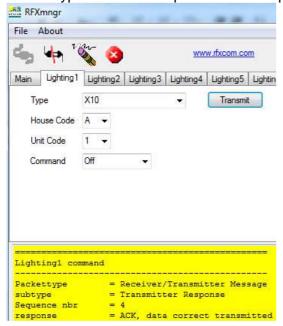
5.2. Transmitter

The tabs after the Main tab are used to send commands to the transmitter.

For example Lighting1 is used to send X10, ARC and some more.

Note: Protocol enabling is only necessary for receive. Transmit protocols are always enabled.

Select Type to see which protocols are supported on the different tabs.



The transmitted commands are displayed in the yellow window including the acknowledge send by the RFXtrx, in the example above "ACK, data correct transmitted".

6. Flash update of the RFXtrx

6.1. Update firmware in the RFXtrx

Firmware is flashed in the RFXtrx using this procedure:

- 1. Depending on the RFXtrx type download the latest RFXtrx315_yy.hex, RFXrec433_yy.hex or RFXtrx433_yy.hex firmware file.
- 2. Connect the RFXtrx to a Windows system or Linux under MONO
- 3. Stop any program that is connected to the RFXtrx.
- 4. Start the RFXflash program (version 4.0.0.0 or higher)
- 5. Select the USB RFXtrx COM port or TCP/IP port and click the CONNECT button, (the red LED on the RFXtrx should switch on now)
- 6. Load the correct .hex firmware file for your RFXtrx,
- 7. Click the WRITE button,
- 8. Click the Normal Execution mode button.

IMPORTANT:

- 1. Do not interrupt the flash procedure when started.
- 2. It can happen that the flash procedure ends with a pop-up screen indicating errors. Just disconnect the RFXtrx and start again at step 5 until the flash procedure if finished without errors.

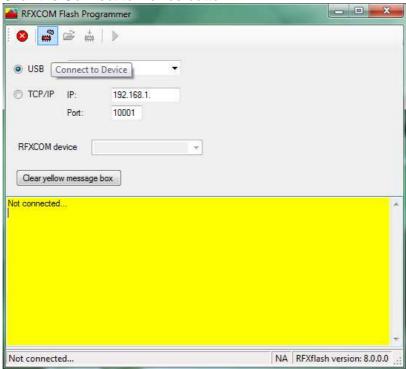
If the red LED does not switch on if you click the CONNECT button:

- 1. Check if you have selected the correct USB COM port.
- 2. If you have flashed the RFXtrx before and interrupted the flash procedure it is possible that the RFXtrx does not enter the flash state. Contact support@rfxcom.com for help.

Note: Receiver Settings are lost in Type1 and Type2 firmware after an update and have to be set again.

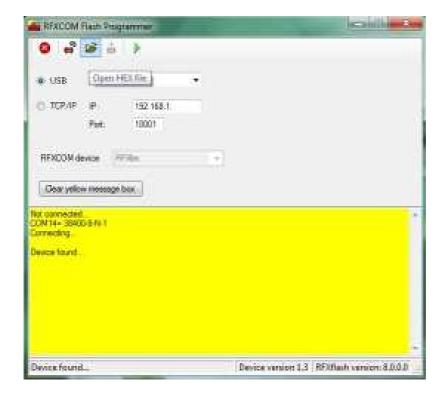
6.2. Update firmware in the RFXtrx step by step

Click the Connect to Device button.

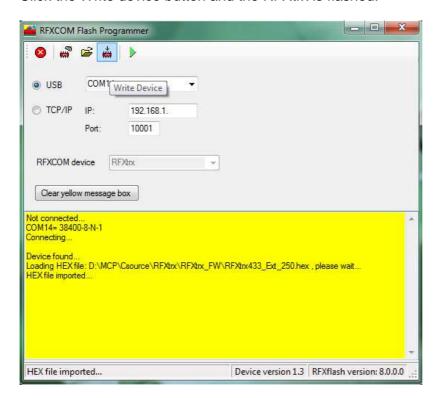


The RFXtrx will automatically switch from normal mode to the bootloader now.

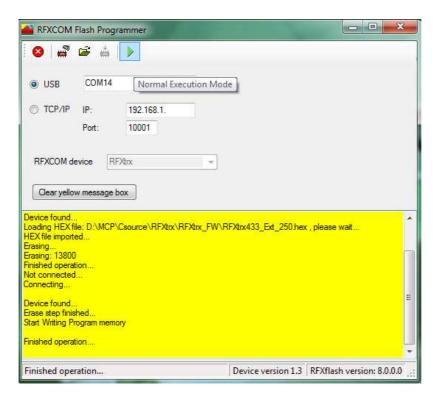
Click the Open HEX file button and load the RFXtrxyyy_xx.hex file
Be sure to load the latest firmware file for the RFXtrx.
yyy indicates the RFXtrx frequency, so load the RFXtrx433 for an RFXtrx433!
xx indicates the firmware version.



Click the Write device button and the RFXtrx is flashed.



• Click on the Normal Execution Mode button to set the RFXtrx to running mode.



Note: Receiver Settings are lost in Type1 and Type2 firmware after an update and have to be set again.

7. RFXtrx433 special device codes

7.1. Remote commands

7.1.1. X10 RF Remote

Dec 2 18 34 56 58 64 66 82 96 98 99 100	Hex 02 12 22 38 3A 40 42 52 60 62 63 64	Button 0 8 4 Rewind Info CHAN+ 2 Ent VOL+ 6 Stop Pause
112 113 114 115 116 117 118 119 120 121 123 124 125	70 71 72 73 74 75 76 77 78 79 7B 7C 7D	Cursor-left Cursor-right Cursor-up Cursor-down Cursor-up-left Cursor-up-right Cursor-down-right Cursor-down-left left mouse left mouse-End Drag right mouse-End
130 146 160 162 176 182 184 186 192 210 211 212 213 214 215 216 217 224 226 242 255	82 92 A0 A2 B0 B6 B8 BA C0 C2 C9 D1 D2 D3 D4 D5 D6 D7 D8 D9 E0 E2 F2 FF	1 9 MUTE 5 Play Menu Fast Forward A+B CHAN- 3 Exit MP3 DVD CD PC / Shift-4 Shift-5 Shift-Ent Shift-Teletext Text Shift-Text VOL- 7 Teletext Record

7.1.2. ATI Remote Wonder

Dec 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 33 33 34 35 36 36 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 37 37 37 37 37 37 37 37 37 37 37 37	Hex 00 01 02 03 04 05 06 07 08 09 0A 0B 0D 0D 0D 0D 10 11 12 13 14 15 16 17 18 19 10 11 12 13 14 15 16 17 18 18 19 19 19 19 19 19 19 19 19 19	Button A B power TV DVD ? Guide Drag VOL+ VOL- MUTE CHAN+ CHAN- 1 2 3 4 5 6 7 8 9 txt 0 snapshot ESC C ^ D TV/RADIO < OK > < E V F Rewind Play Fast forward Record Stop	56 57 58 112 113 114 115 116 117 118 119 120 121 124 125	38 39 3A 70 71 72 73 74 75 76 77 78 79 7C 7D	edit image Full screen DVD Audio Cursor-left Cursor-up Cursor-up Cursor-down Cursor-up-right Cursor-down-right Cursor-down-left V V-End X X-End
41 44 45 46 47 48 49 50 51 52 53 54 55	29 2C 2D 2E 2F 30 31 32 33 34 35 36 37	TV VCR RADIO TV Preview Channel list Video Desktop red green yellow blue rename TAB Acquire image			

7.1.3. ATI Remote Wonder Plus

Dec	Hex	Button	35	23	F
0	00	A	36	24	Rewind
1	01	В	37	25	Play
2	02	power	38	26	Fast forward
3	03	TV	39	27	Record
4	04	DVD	40	28	Stop
5	05	?	41	29	Pause
6	06	Guide	42	2A	TV2
7	07	Drag	43	2B	Clock
8	08	VOL+	44	2C	TV
9	09	VOL-	45	2D	VCR
10	0A	MUTE	46	2E	RADIO
11	0B	CHAN+	47	2F	TV Preview
12	0C	CHAN-	48	30	Channel list
13	0D	1	49	31	Video Desktop
14	0E	2	50	32	red
15	0F	3	51	33	green
16	10	4	52	34	yellow
17	11	5	53	35	blue
18	12	6	54	36	rename TAB
19	13	7	55	37	Acquire image
20	14	8	56	38	edit image
21	15	9	57	39	Full screen
22	16	txt	58	3A	DVD Audio
23	17	0	112	70	Cursor-left
24	18	Open Setup Menu	113	71	Cursor-right
25	19	C	114	72	Cursor-up
26	1A	^	115	73	Cursor-down
27	1B	D	116	74	Cursor-up-left
28	1C	FM	117	75	Cursor-up-right
29	1D	<	118	76	Cursor-down-right
30	1E	OK	119	77	Cursor-down-left
31	1F	>	120	78	Left Mouse Button
32	20	Max/Restore Window	121	79	V-End
33	21	E	124	7C	Right Mouse Button
34	22	V	125	7D	X-End

7.1.4. Medion Remote

Dec	Hex	Button	54	36	rename TAB
0	00	Mute	55	37	Acquire image
1	01	В	56	38	edit image
2	02	power	57	39	Full screen
3	03	TV	58	3A	DVD Audio
4	04	DVD	112	70	Cursor-left
5	05	Photo	113	71	Cursor-right
6	06	Music	114	72	Cursor-up
7	07	Drag	115	73	Cursor-down
8	08	VOL-	116	74	Cursor-up-left
9	09	VOL+	117	75	Cursor-up-right
10	0A	MUTE	118	76	Cursor-down-right
11	0B	CHAN+	119	77	Cursor-down-left
12	0C	CHAN-	120	78	V
13	0D	1	121	79	V-End
14	0E	2	124	7C	X
15	0F	3	125	7D	X-End
16	10	4	120	70	X-LIIG
17	11	5			
18	12	6			
19	13	7			
20	14	8			
21	15	9			
22	16	txt			
	17	0			
23					
24	18	snapshot ESC			
25	19	DVD MENU ^			
26	1A				
27	1B	Setup			
28	1C	TV/RADIO			
29	1D	<			
30	1E	OK			
31	1F	>			
32	20	<- -			
33	21	E			
34	22	V			
35	23	F Descript			
36	24	Rewind			
37	25	Play			
38	26	Fast forward			
39	27	Record			
40	28	Stop			
41	29	Pause			
11	20	TV			
44 45	2C	TV			
45 46	2D	VCR			
46 47	2E	RADIO			
47 40	2F	TV Preview			
48	30	Channel list			
49 50	31	Video Desktop			
50	32	red			
51	33	green			
52	34	yellow			

35

blue

53

7.2. Harrison address conversion to switch settings

The address used is converted to the address selected in the Harrison curtain motor using the table below.

```
switch 1 2 3 4
                  5 6 7 8
    нннн
                 X X X X
               1 0 0 0 0
  A 0 1 1 0
  B 0 1 1 1
               2 0 0 0 1
               3 0 0 1 0
  C 0 1 0 0
  D 0 1 0 1
               4 0 0 1 1
  E 1 0 0 0
               5 0 1 0 0
  F
    1 0 0 1
               6 0 1 0 1
               7 0 1 1 0
  G 1 0 1 0
  H 1 0 1 1
               8 0 1 1 1
               9 1 0 0 0
    1 1 1 0
  I
             10 1 0 0 1
    1 1 1 1
  J
  K
    1 1 0 0
              11 1 0 1 0
    1 1 0 1
              12 1 0 1 1
  L
  M 0 0 0 0
              13 1 1 0 0
  N 0 0 0 1
              14 1 1 0 1
  0 0 0 1 0
              15 1 1 1 0
     0 0 1 1
               16 1 1 1 1
  Ρ
```

```
H H H H = House code
X X X X = device code
```

Switch position in the motor:

Up = 1

Middle = not used!!!!

Down = 0

Examples:

If you assign the address E7 (1000 0110) to the curtain motor then set the switches to: 1=up, 2=down, 3=down, 4=down, 5=down, 6=up, 7=up, 8=down

If you assign the address A2 (0110 0001) to the curtain motor then set the switches to: 1=down, 2=up, 3=up, 4=down, 5=down, 6=down, 7=down, 8=up

7.3. Flamingo, AB400, IMPULS, Sartano, Brennenstuhl, SilverCrest 91089, Cranenbroek switch settings

Use type ELRO AB400D

1 2 3 4 <== switches

Note that the HC (House Code A-P) is the house code used in programs and has no direct relation with the A,B,C,D,E buttons on the remotes!

B (C C C C C C C C C C C C C C C C C C C	0 0 0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 1 1 0 0 1 1 0 0 1 1	0 1 0 1 0 1 0 1 0 1 0 1												
N 1	1 1 1 1 1 1	0 0 1 1	0 1 0 1												
	5 6	B 7	C 8	9	E 10	:=DC===	5 5	6	7	C 8	D 9	10	<== <==	tche swit	
1	0 0 0 0 0 0 0 0 0 1 1 0 0 1 0 1 0 0 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1	0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 0 0 0 1 0 0 1 0 0 0 1	0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 64 64 64 65 66 66 66 66 66 66 66 66 66	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1	0 0 0 0 0 1 1 1 1 1 0 0 0 0 0 1 1 1 1 1	0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 1 0 0 1	010101010101010101010101	0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1				

Examples:

A1 000000000 A15 0000111000 N2 1101000100 N11 101101000

0 =switch off 1 =switch on

7.4. Energenie 5-gang 429.950

To know the codes to use open the remote and check the 1 to 5 jumpers connected. If a jumper connection is open it is a 1. If connected it is a 0 (zero)

	1	2	3	4	jum	per	setting	in	the	remote
HC======										
A	0	0	0	0						
В	0	0	0	1						
C	0	0	1	0						
D	0	0	1	1						
E	0	1	0	0						
F	0	1	0	1						
G	0	1	1	0						
Η	0	1	1	1						
I	1	0	0	0						
J	1	0	0	1						
K	1	0	1	0						
L	1	0	1	1						
M	1	1	0	0						
N	1	1	0	1						
0	1	1	1	0						
P	1	1	1	1						

If jumper 5 is open (1) than add 5 to the remote code.

Examples:

Jumper	Button Code				
12345					
10000	1	I 1			
10001	1	16			

7.5. Phenix, IDK YC-4000S switch settings

Use type ELRO AB400D

Note that the HC (House Code A-P) is the house code used in programs and has no direct relation with the A,B,C,D,E buttons on the remotes!

HC	1	vit 2	3	4	
E E E E E E E E E E E E E E E E E E E	0 0 0 0 0 0 0 0 0 1 1 1 1 1 1	0 0 0 0 1 1 1 0 0 0 1 1 1 1 1	0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 1	0 1 0 1 0 1 0 1 0 1 0 1 0 1	
DC	5	vit A	В	С	D
==== 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 23 24 25 26 27 28 29 20 20 21 21 21 21 21 21 21 21 21 21 21 21 21		== 0 0 0 0 1 1 1 1 0 0 0 0 0 1 1 1 1 0 0 0 0 0 1 1 1 1 1 0 0 0 0 0 1	== 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 1	0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	== 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

7.6. HE105 switch settings

Unitnr		E1(vitches
	1	2	3	4	5
0	0	0	0	0	0
1	0	0	0	0	1
2	0	0	0	1	0
3 4	0	0	0	1	1
4	0	0	1	0	0
5	0	0	1	0	1
6	0	0	1	1	0
7	0	0	1	1	1
8	0	1	0	0	0
9	0	1	0	0	1
10	0	1	0	1	0
11	0	1	0	1	1
12	0	1	1	0	0
13	0	1	1	0	1
14	0	1	1	1	0
15	0	1	1	1	1
16	1	0	0	0	0
17	1	0	0	0	1
18	1	0	0	1	0
19	1	0	0	1	1
20	1	0	1	0	0
21	1	0	1	0	1
22	1	0	1	1	0
23	1	0	1	1	1
24	1	1	0	0	0
25	1	1	0	0	1
26	1	1	0	1	0
27	1	1	0	1	1
	1	1	1	0	0
28					
29	1	1	1	0	1
30	1	1	1	1	0
31	1	1	1	1	1

7.7. HQ COCO-20

6 7 8 9 <== switches in module

Note that the HC (House Code A-P) is the house code used in programs and has no direct relation with the A,B,C,D,E buttons on the remotes!

```
HC======
    0 0 0 0
Α
В
    0 0 0 1
C
    0 0 1 0
D
    0 0 1 1
    0 1 0 0
F
    0 1 0 1
    0 1 1 0
G
Η
    0 1 1 1
I
    1 0 0 0
J
    1 0 0 1
K
    1 0 1 0
L
    1 0 1 1
    1 1 0 0
Ν
    1 1 0 1
0
    1 1 1 0
    1 1 1 1
   10 1 2 3 4 5
                       10 1 2 3 4 5 <== switches in module
DC======DC=======
   0 0 0 0 0 0 33 1 0 0 0 0 0
   0 0 0 0 0 1 34 1 0 0 0 0 1
0 0 0 0 1 0 35 1 0 0 0 1 0
0 0 0 0 1 1 36 1 0 0 0 1 1
    0 0 0 0 1 0 0
5
                  37
38
                         1 0 0 1 0 0
                       1 0 0 1 0 1
    0 0 0 1 0 1
6
    0 0 0 1 1 0
                  39
                        1 0 0 1 1 0
                  40
8
    0 0 0 1 1 1
                         1 0 0 1 1 1
                  41
    0 0 1 0 0 0
                        1 0 1 0 0 0
   0 0 1 0 0 1
                        1 0 1 0 0 1 1 0 1 0
10
                  42
                  43
   0 0 1 0 1 0
11
                  44
45
12
   0 0 1 0 1 1
                       1 0 1 0 1 1
    0 0 1 1 0 0
                         1 0 1 1 0 0
13
                        1 0 1 1 0 1
14
    0 0 1 1 0 1
                  46
                        101110
    0 0 1 1 1 0
15
                  47
16
    0 0 1 1 1 1
                   48
                         1 0 1 1 1 1
    0 1 0 0 0 0 49
                        1 1 0 0 0 0
17
    0 1 0 0 0 1 50
0 1 0 0 1 0 51
18
                         1 1 0 0 0 1
                        1 1 0 0 1 0
19
    0 1 0 0 1 1
                  52
20
                       1 1 0 0 1 1
21
    0 1 0 1 0 0
                  53
                         1 1 0 1 0 0
   0 1 0 1 0 1
                       1 1 0 1 0 1
22
                  54
                  55
   0 1 0 1 1 0
0 1 0 1 1 1
                       1 1 0 1 1 0 1 1 1
23
                  56
24
25
   0 1 1 0 0 0 57
                       1 1 1 0 0 0
   0 1 1 0 0 1 58
0 1 1 0 1 0 59
                       1 1 1 0 0 1 1 1 1 1 0 1 0
26
2.7
   0 1 1 0 1 1 60 1 1 1 0 1 1
0 1 1 1 0 0 61 1 1 1 1 0 0
28
29
                         1 1 1 1 0 0
    0 1 1 1 0 1 62 1 1 1 1 0 1
30
31
    0 1 1 1 1 0 63
                         1 1 1 1 1 0
                       1 1 1 1 1 1
    0 1 1 1 1 1
                  64
32
Examples:
Switch 6789012345
```

_____ A1 0000000000 A15 0000111000 N2 1101000100 N11 1101101000

0 =switch off 1 =switch on

7.8. MDREMOTE V106, V107

This MDREMOTE has been tested.

http://www.ultraleds.co.uk/mini-dimmer-with-rf-remote-control-12-or-24v-dc-12a-maximum.html

The RFXtrx433 can only transmit MDREMOTE commands.

Procedure to find the ID of the MDREMOTE: In RFXmngr enable the X10 protocol and enable "Undec on". Press a button on the MDREMOTE remote.

The undecoded message contains the ID in the 2nd and 3rd byte, for example:

UNDECODED NEC:20AF6801D1

The 2 bytes after 20 is the MDREMOTE ID, in this example AF 68

7.9. MDREMOTE V108, EKAB-10KRF

This MDREMOTE has been tested.

- http://www.ledstripkoning.nl/accessoires/dimmers-wit/draadloze-dimmer-10-knops-rf/

Procedure to find the ID of the MDREMOTE: In RFXmngr enable the Lighting4 protocol and enable "Undec on". Press a button on the MDREMOTE remote.

The undecoded message contains the ID in the 2nd and 3rd byte, for example:

UNDECODED ARC:201A0703FCFC

The 2 bytes after 20 is the MDREMOTE ID, in this example 1A 07

7.10. Aoke relay

The Aoke 12V DC - 315MHz or 433.92MHz 1 channel relay is available at www.aliexpress.com store No.110758. Indicate clearly the required frequency when ordering!

The 1 channel learning relays can be used, see the picture below. For example, for 1 relay:

http://www.aliexpress.com/store/product/DC12V-1CH-wireless-switch-remote-control-system-remote-control-switch-for-guard-door-window-curtain/110758_936534863.html or for 6 relays:

http://www.aliexpress.com/store/product/ak-DC12V-1CH-RF-rocker-switch-livolo-switch-system-in-china-j-12a-108d-smart-house/110758 1007306574.html



The jumper next to the learning button defines to operating mode:

Open = momentary

1-2 = toggle mode

2-3 = on/off mode (to be used with the RFXtrx)

7.11. SEAV TXS4

The ID can be found using RFXmngr and enable only ByronSX and undec on.

```
Or calculate the ID:
```

```
A SW1 switch on = 1
```

```
|----SW1-----|
 1 2 3 4 5 6 7 8 9 10
0 x x x | x x x x | x x x 0 | 0 1 0 1
```

For example SW1 = on off on off on off on off

```
The ID will become:
```

```
|-----|
 1 2 3 4 5 6 7 8 9 10
0 1 0 1 | 0 1 0 1 | 0 1 0 0 | 0 1 0 1 this is hex: 5 5 4 5
```

7.12. How to find the dx.com RGB LED strip driver ID

Valid for the TRC02 remote with 2 batteries.

Flash the RFXtrx433 with Type2 firmware to be able to receive the remote ID in RFXmngr. In RFXmngr enable only the LightwaveRF (AD) protocol.

```
Packettype = Lighting5
subtype = RGB TRC02
Sequence nbr = 5
ID = FCC48B
Command = On
Signal level = 8
```

The ID is: FC C4 8B

If necessary flash the RFXtrx433 back to Type1 or ext if Type2 does not support devices you need. (See chapter 2.2)

7.13. How to find the dx.com RGB LED strip driver ID (rev. 2)

Valid for the TRC02 remote with 3 batteries and ebay.com 191481664563.

In RFXmngr enable only the Lighting4 protocol.

```
Packettype = Lighting4
subtype = PT2262
Sequence nbr = 29
               = 161C84
```

The ID is: 16 1C

7.14. How to find the Eurodomest ID

You can assign a random ID to the Eurodomest. If you want to use the same ID as the remote you can find the ID of the remote using RFXmngr.

Start RFXmngr and enable only the Lighting4 protocol.

Press a button on the remote and you will receive a message like:

```
Packettype = Lighting4
subtype = PT2262
Sequence nbr = 12
                    = <mark>6DFE0</mark>F
```

The ID is: 6 DF E0

Note: Eurodomest can also be controlled using ARC.

7.15. How to find the Screenline ID

You can assign a random ID to the Screenline. If you want to use the same ID as the remote you can find the ID of the remote using RFXmngr.

Start RFXmngr and enable only the Lighting4 protocol and undec on.

Press a button on the remote and you will receive a message like:

```
Packettype = UNDECODED RF Message
UNDECODED ARC:40000F78D1D2AF04B7
```

The ID starts at the 7^{th} character, in this example the ID = 7B D1

7.16. How to find the Avantek remote ID

You can find the ID of the remote using RFXmngr. Start RFXmngr and enable only the Lighting4 protocol.

Press a button on the remote and you will receive a message like:

Packettype = Lighting4 subtype = PT2262 Sequence nbr = 3

Code = $\frac{12233}{5}$ decimal:1188662 S1- S24 = 0001 0010 0010 0011 0011 0110

Pulse = 280 usecSignal level = 7 - 64 dBm

The ID to be used is 1 22 33

8. Blyss commands

Some Blyss devices, like the Blyss motors, require a special command sequence number. To simplify it; 0,1,2,3,4,0,1,...

This sequence number is normally created by the Blyss remote but now also by the RFXtrx433.

If you use a Blyss remote and the application (Domoticz, DomotiGa, Homeseer...) does not sync with the received Blyss command you will see that you need to send multiple commands with the RFXtrx433 before the Blyss device will respond.

For example,

The Blyss remote transmits with the sequence numbers 0,1,2

If the RFXtrx433 transmits now with sequence number 0 it will not be seen by the Blyss device as a valid command and at the time the RFXtrx433 transmits the commands 1,2,3 the command will be detected as valid when it receives the command with sequence number 3.

The same is true for the remote. If you transmit commands with the RFXtrx433 and after that with a Blyss remote you need to transmit several commands with the remote before the Blyss device responds.

I guess the same behaviour will show if you use multiple Blyss remotes.

9. Somfy RTS

Somfy RTS* devices can only be controlled by the RFXtrx433E. (not with the RFXtrx433) The RFXtrx433E version is an RFXtrx433 with additional hardware to enable the RFY protocol used to control Somfy RTS.

The 433.42MHz transmitter in the RFXtrx433E is used for a reliable control of the Somfy RTS devices over a large distance and through walls.

The RFXtrx433E 433.92MHz transmitter is used to control all other devices.

To pair the Somfy RTS device:

- Select a unique ID and unitcode for the RFXCOM RFY device.
- Disconnect power from all Somfy RTS devices except the device to pair.
- Press the Program button > 2 seconds on the original Somfy remote until the Somfy device responds.
- Transmit a Program command with the RFXtrx433E. The Somfy RTS device should respond
 indicating the pair command was successful.

The RFXCOM RFY remote is registered in the RFXtrx433E by sending a Program command. Up to 40 RFXCOM RFY remotes can be registered in the RFXtrx433E.

Remotes can be erased from the RFXtrx433E using the RFXmngr program.

The Somfy RTS device can be controlled by any application as long as the same ID and Unit Code are used.

For example if the RTS device is paired using RFXmngr with ID=1 02 03 and Unit Code 1, the RTS device can be controlled with Homeseer using the same ID and unit code.

* Somfy RTS are registered trademarks of Somfy System, Inc.

10. BlindsT6

To add a RFXtrx433(E) BlindsT6 device to the blinds motor:

- 1. press the "program" button twice on the original remote ==> 2 beeps
- 2. transmit the "confirm" command with the RFXtrx433(E) ==> 5 beeps

11. Lucci Air fan

Select the ID for switch settings:

```
ID
     Remote switches
     1 2 3 4
0
     0 0 0 0
     0 0 0 1
1
     0 0 1 0
     0 0 1 1
     0 1 0 0
5
     0 1 0 1
6
     0 1 1 0
     0 1 1 1
     1 0 0 0 1
8
9
     1 0 1 0
Α
В
     1 0 1 1
    1 1 0 0
   1 1 0 1 1 1 1 0
D
E
    _
1 1 1 1
```

0 = ON

12. Transmit undecoded ARC commands.

Plug-in modules or other equipment with a PT2262 can be controlled using Lighting4. There are a lot of brands using the PT2262 and some of them use the same timing (350) as used by the ARC devices but a different protocol definition.

Messages will be received as undecoded ARC messages if the protocol definition does not match the definition of the ARC protocol. Remote commands are received as ARC commands with a wrong house and device code and/or command code or as undecoded ARC messages if "undec on" is enabled. Decoding of these remotes is therefore not possible because they overlap the ARC protocol partly.

But transmitting these commands is possible using the Lighting4 command.

So if we receive this command UNDECODED ARC:18014403: (18 is not used)

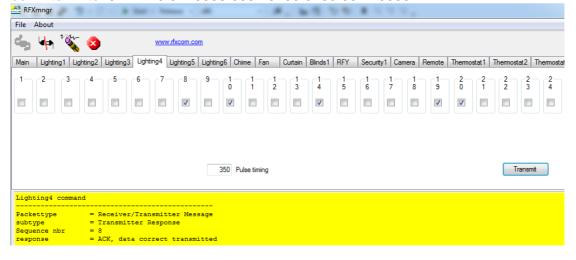
hex to binary table

- 0=0 0 0 0
- 1=0 0 0 1
- 2=0 0 1 0
- 3=0 0 1 1
- 4=0 1 0 0
- 5=0 1 0 1
- 6=0 1 1 0
- 7=0 1 1 1
- 8=1 0 0 0
- 9=1 0 0 1
- A=1 0 1 0
- B=1 0 1 1
- C=1 1 0 0
- D=1 1 0 1
- E=1 1 1 0
- F=1 1 1 1

0 1 4 4 0 3 = selection box 0000 0001 0100 0100 0000 0011 Not selected = 0, box selected = 1

And the Lighting4 command contains the same "undec code" 01 44 03: Lighting4 command:09 13 00 04 01 44 03 01 5E 00 pulse timing is 350 = hex 015E

Another example:



13. MCZ pellet stove.

In the Type2 firmware zip file which is available on the downloads page you will find a special firmware RFXtrxMCZ.hex that enables you to know the ID of the your MCZ remote.

Flash the RFXtrxMCZ.hex firmware in your RFXtrx433(E) and start RFXmngr. Transmit a command with the MCZ remote and you will receive the information.

The ID in this example is 81 3F 22

```
Packettype = Thermostat4

subtype = MCZ pellet stove 2 fans model

Sequence nbr = 0

ID = 0x813F22 decimal:8470306

Beep = Yes

Fan1 speed = 1

Fan2 speed = 7

Flame power = 1

Command = Off

Signal level = 6 -72dBm
```

Flash now Type2 or Ext firmware in your RFXtrx433(E) and you can control your MCZ stove using the received ID.

Important: remove the batteries from the original remote before you start using the RFXtrx433 to control the MCZ stove!

14. Known Lighting4 devices

14.1. Proluxx projection screen

Use Lighting4 with a pulse timing of 360

```
UP 1110 1101 0101 1001 0101 0010 ED 59 52 STOP 1110 1101 0101 1001 0101 1000 ED 59 58 DOWN 1110 1101 0101 1001 0101 0100 ED 59 54 RESET 1110 1101 0101 1001 0101 0001 ED 59 51
```

14.2. Kingpin (KP100) projection screen

Use Lighting4 with a pulse timing of 1040

UP	1110	0001	0100	0010	0010	0010	E1	42	22
STOP	1110	0001	0100	0010	0010	0100	E1	42	24
DOWN	1110	0001	0100	0010	0010	1000	E1	42	28
PROGRAM	1110	0001	0100	0010	0010	0001	E1	42	21

14.3. Mercury remote control mains sockets

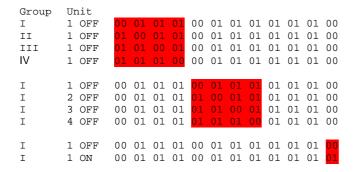
http://mercury.avsl.com/product?range=ME5124 Use Lighting4 with a pulse timing of 188

```
1 OFF 0100010001010101011 1100
2 OFF 01000100010101011100 1100
2 ON 01000100010101011100 1100
3 OFF 010001000101011110000 1100
4 OFF 01000100010111010000 1100
4 ON 01000100010111010000 0011
5 OFF 01000100011101010000 1100
5 ON 01000100011101010000 0011
```

14.4. Conrad 034911 sockets

http://www.conrad.nl/ce/nl/product/034911/Draadloze-schakelaarset-5-delig Use Lighting4 with a pulse timing of 425

Off = last 2 digits: 00 ON = last 2 digits: 01



15. FAQ

15.1. Receive has stopped suddenly but transmit works.

Most probably a sensor is transmitting constantly. This could be for example an X10 MS13 motion sensor or weather sensor with almost empty battery. Or an outside weather sensor filled with water. Or a remote with a button pressed.

Test the RFXtrx with a remote or sensor on another location (> 1km away) using RFXmngr on a Windows system or laptop.

15.2. Can I increase the receive/transmit range of the RFXtrx?

First check chapter 2.5 for the best place for the RFXtrx antenna.

The switch board is not the best place for the RFXtrx because of all metal objects that will absorb or reflect the RF signals.

It is also advised to place the RFXtrx far away from PC's, routers, Raspberry PI ... because of the RF noise those products produce and this will reduce the receive range very much.

You can connect another 50ohm 70cm/433MHz antenna with more gain.

For example http://www.ebay.com/itm/290979680030

Install this antenna on a metal plate of at least 30 cm for optimum result.

15.3. The RFXtrx USB connection disconnects sometimes.

This happens mostly on Raspberry PI with a low quality power supply. Solution is to use a powered USB hub with a good quality power supply.

It can also happen if the USB cable is running along a power cable and a power device is switched on that produces a high power spike like TL. Solution is to separate the USB cable from all other cables and/or use a powered USB hub with a good quality power supply.

15.4. I have a 433.92MHz sensor/remote but this device is not received.

Besides the frequency the used protocol and modulation type is also important. See chapter 2 for the list of supported devices.

15.5. The wall plug is switched by the remote. The remote is received but the RFXtrx does not switch the module.

The remote transmits several protocols. The protocol used by the wall plug is not received by the RFXtrx but some other protocols are received. Solution:

For the HomeEasy EU- HE8xx series: reset the module to remove all paired remotes and pair the module with the RFXtrx433E and one of remote codes that is received.

For IT modules FA500/PROmax: Pair the RFXtrx433E with the module using an IT device and select a random ID. The received remote code can be used to know if the module is switched by the remote.

16. EC Declaration of Conformity

EC Declaration of Conformity CE

RFXCOM declares that the product:

RFXtrx

Brand: RFXCOM Type: RFXtrx433E

conforms with the essential requirements and other relevant provisions of the following directives and complies with the following standards applied:

R&TTE Directive 99/5/EC EN 300 220-1 V2.4.1 (2012-05)

EN 300 220-2 V2.4.1 (2012-05)

Low-voltage Directive 2006/95/EC IEC 60950-1 (2005-12)

EMC Directive 2004/108/EC EN 301 489-1 V1.9.2 (2011-09)

EN 301 489-3 V1.4.1 (2002-08)

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20. Revision history

Version 0.0 - August 18, 2011

Initial version.

Version 1.0 – October 30, 2011

RFXflash under Mono added.

Version 2.0 – December 30, 2011

Updated for the production version with FTDI USB chip

Version 2.1 – January 18, 2012

Link for ACM to serial port added in Linux instruction.

EC Declaration of Conformity added

Version 2.2 - February 8, 2012

Protocols overview added

Screen dumps updated

Version 2.3 – February 16, 2012

Novatys planned

Version 2.4 – February 25, 2012

General information updated

Version 2.5 - March 1, 2012

Chapter added how to run RFXmngr or RFXflash on Linux.

Version 2.6 – March 14, 2012

Code tables added

Cresta, UPM added

Version 2.7 – March 15, 2012

Flash procedure updated

Version 2.8 - March 31, 2012

Phenix table added

Version 2.9 - March 31, 2012

AB400 and Phenix address extended

Version 2.10 – April 16, 2012

Linux USB - tty configuration updated

Version 2.11 – May 14, 2012

List of supported protocols updated.

Version 2.12 – June 8, 2012

Chapter added how to run RFXmngr or RFXflash on Mac OS

Version 2.13 – July 15, 2012

List of supported protocols updated

Version 2.14 – August 4, 2012

List of enabled protocols influence added

RFXtrx315 added

Version 2.15 – August 18, 2012

Enabled protocols table changed

Version 2.16 - August 26, 2012

Rubicson stektermometer added

ATI Remote Wonder II added

Version 2.17 – August 28, 2012

Table "sensitivity influenced" updated

Version 2.18 – September 18, 2012

Chapter 2.3 updated: BlindsT0 disables all other protocols

Version 2.19 – September 25, 2012

RFXFlash version required changed to 4.0.0.0

Version 2.20 – September 28, 2012

RF range reduction guide added

Version 2.21 – October 18, 2012

BlindsT2 and BlindsT3 added

Version 2.22 – October 24, 2012

Sartano added

Version 2.23 – October 31, 2012

Sensitivity table updated

Version 2.24 – November 7, 2012

Protocol table extended with the protocols to enable for receive

Version 2.25 – November 14, 2012

HE105 switch settings added

Version 2.26 – November 28, 2012

undec on explained

Version 2.27 – December 4, 2012

Use of Lighting4 commands for undec ARC

Brennenstuhl added

Version 2.28 – December 18, 2012

Receiver tab removed from RFXmngr

Version 2.29 – December 27, 2012

Lighting4 receive added

Version 2.30 – January 1, 2013

Raex motor added

Version 3.00 – January 4, 2013

RFXtrx433 Type1/Type2 firmware added

Version 3.01 – February 4, 2013

Supported protocols list updated

Version 4.00 – February 21, 2013

Chapter 8 - Lighting4 screen updated for RFXmngr 11.0.0.0

Known Lighting4 chapter added

Version 4.01 - March 13, 2013

Receive of LaCrosse sometimes influenced by enabled Hideki

Version 4.02 – June 8, 2013

MDREMOTE LED dimmer added

Conrad RSL2 added

Energenie added

Version 4.03 – September 27, 2013

How to find the MDREMOTE ID (chapter 7.6)

WS1200 added

Byron SX Chime added

Version 4.04 – November 15, 2013

Maverick ET-732 added

Alecto SA30 added

Oregon EW109 added

Revolt added

Version 4.05 – December 5, 2013

Blyss command explanation added.

Lighting4 - Mercury added

Lighting5 - dx.com RGB LED controller added

Version 4.06 – December 27, 2013

Chapter 2.2 updated

Version 4.07 – February 10, 2014

Chapter 7.8 added: how to find the dx.com RGB LED strip driver ID

Version 4.08 - March 20, 2014

ARC and Oregon3.0 updated in table 2.4.

Energenie 5-gang 429.950 added

Version 4.09 – April 4, 2014

BlindsT6 - DC106, YOODA, Röhrmotor24 RMF added

Version 4.10 – April 7, 2014

BlindsT7 - Forest added

Version 4.11 - April 28, 2014

RGB LED - clarified AD is LightwaveRF

Version 4.12 - May 21, 2014

Kambrook RF3672 added

RFY protocol added

Somfy programming instructions added

Supported protocol list RFXtrx433 updated.

Protocol list by function added

Version 4.13 - May 31, 2014

Opus TX300/Imagintronix Soil sensor added

Version 4.14 – June 18, 2014

Prega sensor added

Conrad 34911 Lighting4 coding added

Version 4.15 - June 25, 2014

Kambrook, Rubicson, Viking supported in ext firmware

Number of RFY remotes increased from 16 to 30

Version 4.16 – June 29, 2014

RFXmngr cannot be used on Linux

Version 4.17 – July 3, 2014

CoCo GDR2 added

Version 4.18 - July 14, 2014

Opus TX300 link added

Version 4.19 - July 25, 2014

Aoke relay added

Version 4.20 - August 25, 2014

Enabling protocols clearified.

Version 4.21 – September 5, 2014

Meade sensors added

Oregon BTHGN129 sensor added

Version 4.22 - September 18, 2014

Eurodomest added (NL - Action)

Byron MP001 added

WT0122 added

Procedures added to find the Eurodomest and TRC02 ver2 ID

Version 4.23 - September 24, 2014

Proove TSS330 fridge/freezer sensor added

Version 4.24 - October 9, 2014

BlindsT0 added in ext firmware

Alecto WS1700 and compatibles added

Version 4.25 - December 13, 2014

Smartwares radiator valve added

Proove TSS320 sensor added

Version 4.26 – January 2, 2015

SelectPlus200689101 White Chime (Action NL) added

Version 4.27 - January 6, 2015

SelectPlus200689103 Black Chime (Action NL) added

Version 4.28 – January 7, 2015

Proove outdoor sensors 311346 & 311501 added

Etekcity Wireless Remote Control Outlet Switch (US)

Version 5.00 – January 10, 2015

Copyright message updated

License chapter added

RFXmngr information updated

Version 5.01 – February 27, 2015

Chapter 2.5 Lighting4 receive is reduced with HomeEasy EU enabled.

Chamberlain tubular motor added

Sunpery blind motors added

DEA Systems receivers added

Envivo ENV-1348 chime added

Alecto WS4500 added

Version 5.02 – March 18, 2015

1byOne Easy Chime added

BTX blind motors added

Dolat DLM-1 blind motors added

OTIO added

Version 5.03 – March 19, 2015

TFA 30.3160 pool sensor added

Version 5.04 – April 14, 2015

Chapter 4 updated with restrictions on Lighting4

Siemens SF01 LF959RA50/LF259RB50/LF959RB50 extractor hood added

Maplin N78KA added

Version 5.05 - May 2, 2015

Dooya blind motors added

Louvolite one touch motorised blinds added

Alecto WS3500 added

Version 5.06 - May 4, 2015

Current dx.com TRC02 LED drivers have a different protocol and are not supported.

Version 5.07 – June 1, 2015

WH2 temperature humidity sensor added

RGB LED controller http://www.ebay.com/itm/191481664563 (maybe dx.com 227892)

Version 5.08 - July 31, 2015

Oregon MSR939 added

ESMO blind motors added

Brel blind motors added

Blinds T6 type motors now also supported in Ext firmware

Supported devices table 2.2.2. updated

Version 5.09 – Aug 12, 2015

Luxaflex blind motors added

Version 5.10 – Aug 17, 2015

JVS screen motors added

Livolo NL link added

Version 5.11 – Aug 31, 2015

ASA motors added

Version 5.12- Sept 14, 2015

Home Confort added

Version 5.13- Oct 2, 2015

Oregon GR101 received in Type1 firmware

Conrad RSL sensors received in Type2 firmware

Version 5.14- Oct 7, 2015

Quotidom blinds motor added

Version 5.15- Nov 06, 2015

Banggood temp-hum sensor added

Legrand CAD radio added

Version 5.16- Nov 26, 2015

Proluxx codes corrected

Version 5.17- Dec 24, 2015

RFXflash procedure updated

Rubicson pool sensor 48.019 added

Inovalley SM80 plant sensor added

Lucci Air fan added

Version 5.18- Jan 1, 2016

1byone Drive Way alarm added

Version 5.19- Feb 6, 2016

Avantek added

ASP blinds motors BlindsT11 added

Maverick ET-733 added

Profiles PAC-326R Belcanto chime added

HQ COCO-20 added

Version 5.20- Feb 18, 2016

BlindsT12 Confexx CNF24-2435 added

IT FA500, PROmax... added

Ext2 fimware overview added in chapter 2

Auriol Z31055B-TX added

Chuango, Eminent security sensors added

Version 5.21– May 6, 2016

Cartelectronic TIC and Encoder added

FAQ chapter added

Version 5.22- May 14, 2016

Corrected: TX95 is using the Rubicson protocol

MDRemote V108 added

Version 5.23- June 10, 2016

Motolux blinds motor added

Auriol H13726, Hama EWS1500, Meteoscan W155/W160, Ventus WS155 added

FAQ updated

Version 5.24- June 21, 2016

Seav TXS4 added

Version 5.25- Aug 6, 2016

ORNO added

Version 5.26- Sept 6, 2016

Added: How to find the SEAV TXS4 ID

Version 5.27- Oct 09, 2016

Westinghouse fan 7226640 added

THN129 added

TFA 30.3056 pool sensor added

Version 5.28- Oct 19, 2016

MCZ pellet stove added

Alecto SA33 added

Smartwares RM174RF smoke detector added

Version 5.29- Nov 27, 2016

SilverCrest 91089 added

Mertik G6R-H4S added

Marquant 943134

MCZ pellet stove instructions added

Version 5.30- Dec 6, 2016

Kerui security sensors added

Screenline added

Version 5.31- Dec 15, 2016

Flamingo smartwares SF501 added

Version 5.32- Jan 02, 2017

Kangtai, Cotech added

Version 5.33- Feb 01, 2017

Cranenbroek added

United 48110 EIM 826 added

SilverCrest 60494 added

WSD10 added