easypass

Opens your gate with free hands

How many times looking for your remote control to open your gate or your box is a real nuisance? It seems that it learned how to hide in the car ...
Advanced Microwave Engineering gives you a little but effective solution: easypass

Little, because opening your gate is surely not your biggest daily trouble... but... you know... at the end of the day you only need the last straw to break the camel's back. And little also for the space that it takes: it fits the palm of your hand... but it doesn't like to stay there!

Here's why.

In the last years 'hands-free' devices are having a huge spreading. They make automatically their tasks, without the need, for the user, to push any button.
That's why easypass doesn't like to stay in your hand... It doesn't need to!
A remote control must be found, handled, pushed and then put down.
easypass recognizes your (and obviously your only) gate when you approach it, and automatically opens it.

Effective! Don't you think so?

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How does it work?

The way easypass works is really simple: A.M.E. provides you the antenna to be connected to the opening system of your gate and the transponder that send the opening request when it is in a range of 12 mt. from the antenna.
In the kit A.M.E. provides you two transponders that use the same frequency, ready to be used. If you need to have more vehicles with the transponder on board, you can also buy it individually. Thanks to the special firmware, to program them is really easy. You only need to clone the new transponder selecting the 'program mode' on it and keeping it near the master transponder, the one that comes with the antenna.
Even if installing is very easy, A.M.E. includes the instructions manual and, if needed, an online help desk.

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Technical features

easypass Antenna

Mechanical features

Parameter	L	H	P
External size (L x H x P)	158 mm	95 mm	45 mm
Ip grade		IP 55	
Color		Ivory RAL 9002	

Electrical features

Parameter	Min.	Typ.	Max
Input supply voltage (V_{AC}/V_{DC})	10 V	12/24 V	26 V
Power consumption		2,4 W	3 W

External interfaces

Interface	Characteristics
Relay	Max 16A 240 Vac - Max 3000 VA Vdc

Radio frequency - receiving section

Interface	Characteristics
Band	ISM 433 Europe
Operation frequency	433.92 MHz
Data transfer type	Mono-directional
Modulation	OOK / AM
Receiving sensibility	-90 dBm
Input impedance	50 Ω

Radio frequency - transmitting section

Interface		Characteristics
Band		ISM 2400 MHz
Operation frequency		-
Duty cicle		-
Data transfer type		Mono-directional
Modulation		OOK/AM
Coding		-
Bit rate		9600 bps
Output impedance eirp	Max.	+20 dBm
	Min. (PA off)	-
Radiation pattern		Omni-directional

Environmental specifications

Parameter	Min.	Typ.	Max
Temperature range for operations	-20 °C	--	+70 °C
Temperature range for storage	-55 °C		+125 °C

easypass Transponder

Mechanical features

Parameter	L	H	P
External size (L x H x P)	52 mm	52 mm	9mm
Ip grade		IP 20	
Color		Grey, customizable on request	

Electrical features

Parameter		Min.	Typ.	Max
Duty cycles				>100.000
Input supply voltage (V_{DC}) 3 V (battery 1/2 A)		2.7 V	3.0 V	3.3 V
Power consumption	Active in TX RF			25 mA
	Active in RX MW	4 mA		
	Stand-by		1.5 µA	
	Total			25 mA

Environmental specifications

Parameter	Min.	Typ.	Max
Temperature range for operations	-10 °C	--	+60 °C
Temperature range for storage	-55 °C		+125 °C

Radio frequency - transmitting section

Interface	Characteristics
Band	ISM 433 Europe
Operation frequency	433.92 MHz
Data transfer type	Mono-directional
Modulation	OOK/AM
Coding	-
Bit rate	9.600 bps
Outdoor range	up to 40 mt.
Output impedance max.	+0 dBm
Compliant to ETSI EN 300-220	

Radio frequency - receiving section

Interface	Characteristics
Band	2446-2454 MHz
Operation frequency	-
Data transfer type	Mono-directional
Modulation	OOK/AM
Coding	-
Bit rate	9600 bps
Outdoor range	12 mt.
Receiving sensibility	-35 dBm
Compliant to ETSI EN 300-440	