

Active transponder with two push-buttons - LCN-AT2

The LCN-AT2 has the form of a keyring. When it comes in the range of an LCN-ATW reader, it wakens up from its current saving mode and transfers its identification number (ID) to the reader (per HF-signal, 866MHz).

The HF-transmitter in the LCN-AT2 can also be activated manually by pressing a push-button. The range to the reader LCN-ATW will then be around 50m.

Each of the push-buttons can trigger its own function in the LCN-system.

Function of the LED's on the LCN-AT2
LED **green** operation/push-button pressed
LED **red** battery change required



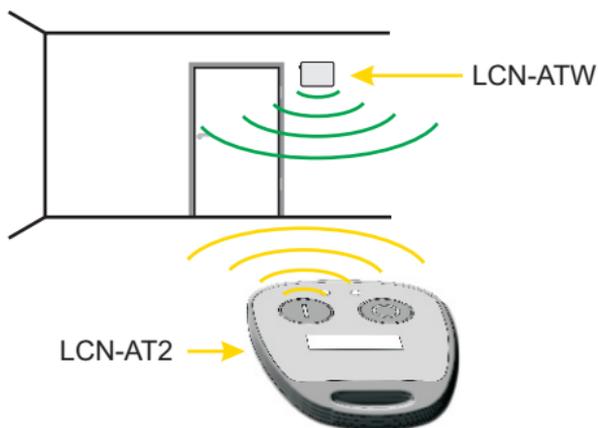
How it functions

The transponders (LCN-AT2's) are activated automatically through the field of an LCN-ATW, without having to press a button. For this it is enough to enter the detection zone (max. 4m range) of the reading device. The LCN-AT2 answers the LCN-ATW with its own ID-Nr. It adds its recognition (LF-ID) when sending to the reader, to which it answers.

When the transponder-ID is stored in the LCN-module of the LCN-ATW, the module will then carry out the LONG-COMMAND. When the LCN-AT2 leaves the detection zone, the module carries out the RELEASE-COMMAND with a delay of approx. 10s.

Additionally the number of the transponder is sent to the LCN-Bus, so that access control systems can react to it.

The transponders (LCN-AT2's) can send wireless commands to the reader over 2 push-buttons, without having to be within the set detection field of the antenna. When the push-button A is pressed, the LCN-AT2 sends an information over the wireless receiver in the reader to the Bus module, that carries out the HIT function of the chosen key in the transponder table.



The push-button B on the LCN-AT2 carries out the HIT function on the subsequent key. The range with HF transfer (when pressing push-button) has a maximum of 50m in free environment. Please make sure, that the commands on both push-buttons from all of the LCN-ATW's in the wireless receiving area are detected and redirected to the connected Bus module - see also installation guide LCN-ATW.

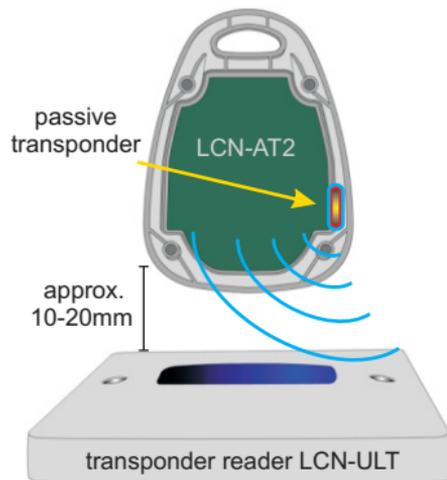
(LF = low frequency with 125kHz, communication ATW -> AT2
HF = high frequency with 868MHz, communication AT2 -> ATW)

Further functions

The transponders have in addition to their active chip, a second passive transponder chip.

The passive transponder is coded with the same ID, so that it is possible to combine an access control system with LCN-ATW and -ULT.

The range when detected by the LCN-ULT, is approx. 10-20mm - see illustration.



Technical data LCN-AT2**connection**

operating voltage:	3V DC
operating current:	7,5µA, 14,3mA for each 14ms
battery/life expectancy:	lithium-cells 2450 / 4-5 years. When used permanently in the LF-field approx. 2 years
inputs/push-button functions	2/Hit functions with control LED

LF-/HF-technic

LF (low frequency-magnet field):	125kHz (globe formed detection range)
reception characteristic:	3D
range (LF, passive transfer):	depending on the settings of the LCN-ATW
HF (high frequency-magnet field):HF	868MHz (free of charge, usable ISM Band)
range (HF, active transfer)	up to 50m in an open environment

Installation

protection art:	IP65
operating temperature:	-20°C to +70°C
dimensions (W x H x D):	47mm x 63mm x 17mm
colour/material/weight:	black/PA6 GF10 GK20/29g
fixing:	eyelet for keys, 15 x 5mm, oval

Notes about duties according to battery laws

Old batteries do not belong in the waste bin. If batteries get into the environment, they can cause environmental and health damages.

You can give used batteries back to your dealer or collection point free of charge. You are committed as a user by law, to return old batteries.



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Technical hotline: +49 5066 998844 or www.LCN.de