



Long Range Transmitter 2 (D-9670A) User Manual



INSTRUCTION TO THE USER

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a typical installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna on the device experiencing the interference
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which this device is connected
- Consult the dealer or experienced technician for the device experiencing the interference

In order to maintain compliance with FCC regulations, no changes can be made to this equipment without the approval of Gatekeeper Systems, Inc. The user is cautioned that any changes or modifications made to the equipment without the approval of Gatekeeper Systems, Inc. could void the user's authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

*Hereby, Gatekeeper Systems (HK), Ltd ,declares that this **Long Range Transmitter 2** is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.*

Crossed out wheeled bin symbol 126. All new EEE products must be marked with the crossed out wheeled bin symbol. In exceptional cases, where this is not possible because of the size or function of the product, the crossed out wheeled bin symbol must be printed on the packaging, the instructions for use and the accompanying warranty where applicable. This symbol aims to encourage the consumer to discard the product separately from general waste, either at the network of designated collection facilities or by returning it to a distributor who provides in-store take-back of WEEE



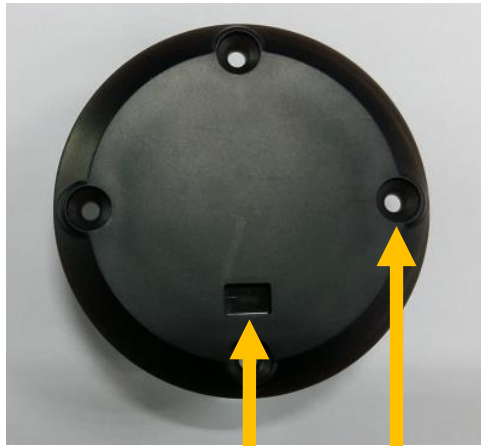
C €0700

The suggested ambient temperature is around 25°C

1. Long Range Transmitter 2:

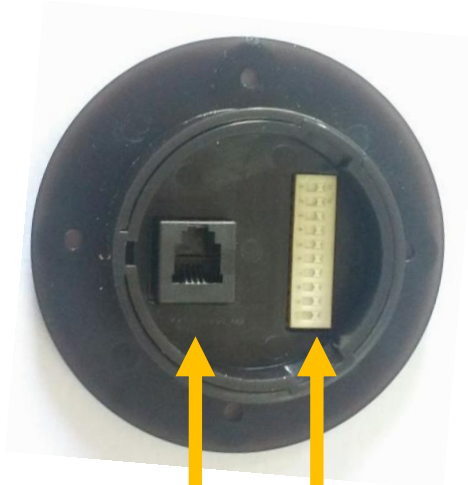
The Gatekeeper Systems D-9760A Long Range Transmitter 2 contains two 2.4GHz transceivers and it is used to send commands to and receive data from the Gatekeeper Systems wheels.

2. Long Range Transmitter 2 details:



Green LED

Screw Mounting
Holes



Connector Block

DIP Switch

Power up Long Range Transmitter 2, by providing +3.3V DC power supply or AC/DC adaptor (which do not included in the selling package) at connector block pin 1 and grounding at connector block pin 4.

While power up, Green LED will be ON to indicate Long Range Transmitter 2 is power up. Then the Green LED will start flashing. It indicates that the Long Range Transmitter 2 is in operating mode.

Connector Block Definition:

Pin	Name	Description
1	3.3VDC	+3.3V DC, 1.5A
4	GND IN	Power Grounding

Green LED Definition:

Status	Description
Solid	Power Up
Flashing	Operating Mode

Screw Mounting holes (Installation)

Mount Long Range Transmitter 2 on the table or on the wall flatly by four screw holes with the bottom mounting surface (The surface of four screw holes) and the table or wall with a slot at the center

DIP Switch Definition:

5. Dip Switch Allocation (1 = ON, 0 = OFF)										
10	9	8	7	6	5	4	3	2	1	Description
							0	0	0	RF Power 2 (-14 dBm)
							0	0	1	RF Power 3 (-12 dBm)
							0	1	0	RF Power 4 (-10 dBm)
							0	1	1	RF Power 5 (-8 dBm)
							1	0	0	RF Power 6 (-6 dBm)
							1	0	1	RF Power 7 (-4 dBm)
							1	1	0	RF Power 8 (-2 dBm)
							1	1	1	RF Power 9 (0 dBm)
Dwell Commands when DIP Switch 10 and 9 are NOT both ON										
					0	0				Dwell Time - 10 Seconds
					0	1				Dwell Time - 20 Seconds
					1	0				Dwell Time - 30 Seconds
					1	1				Dwell Time - 60 Seconds
			0	0						Rotation Count - 2
			0	1						Rotation Count - 4
			1	0						Rotation Count - 8
			1	1						Rotation Count - 250
0	0	0								Dwell: 10 Min Perm 46 76 DWELL_TIME_PM L
0	0	1								Dwell: 30 Min Perm 46 76 DWELL_TIME_PM L
0	1	0								Dwell: 1 Hour Perm 46 76 DWELL_TIME_PM L
0	1	1								Dwell: 3 Hour Perm 46 76 DWELL_TIME_PM L
1	0	0								Dwell: E-purchek Disarm 1 46 76 DWELL_TIME_PM E F
1	0	1								Dwell: E-purchek Disarm 2 46 76 DWELL_TIME_PM L E
Instant Commands when DIP Switch 10 and 9 ARE both ON										
1	1	0	0	0	0	0				Instant: 30 Sec Perm 46 70 PERMISSION_30_SECONDS L
1	1	0	0	0	0	1				Instant: 1 Min Perm 46 58 PERMISSION_1_MIN L
1	1	0	0	0	1	0				Instant: 2 Min Perm 46 59 PERMISSION_2_MIN L
1	1	0	0	0	1	1				Instant: 5 Min Perm 46 60 PERMISSION_5_MIN L
1	1	0	0	1	0	0				Instant: 10 Min Perm 46 61 PERMISSION_10_MIN L
1	1	0	0	1	0	1				Instant: 30 Min Perm 46 62 PERMISSION_30_MIN L
1	1	0	0	1	1	0				Instant: 1 Hour Perm 46 63 PERMISSION_1_HOUR L
1	1	0	0	1	1	1				Instant: 3 Hour Perm 46 64 PERMISSION_3_HOUR L
1	1	0	1	0	0	0				Instant: 12 Hour Perm 46 65 PERMISSION_12_HOUR L
1	1	0	1	0	0	1				Instant: AP Unlock 46 34 AP_UNLOCK U
1	1	0	1	0	1	0				Instant: AP Lock 46 33 AP_LCK L
1	1	0	1	0	1	1				Instant: E-purchek Arm-1 46 78 E_PURCHEK_ARM_1 L E F
1	1	0	1	1	0	0				Instant: E-purchek Lock 46 54 E_PURCHEK_DOORLOCK E F
1	1	0	1	1	0	1				Instant: E-purchek Arm-2 46 79 E_PURCHEK_ARM_2 L E F
1	1	0	1	1	1	0				Instant: E-purchek Disarm-1 46 57 E_PURCHEK_DISARM_1 E F
1	1	0	1	1	1	1				Instant: E-purchek Disarm-2 46 56 E_PURCHEK_DISARM_2 L E
1	1	1	0	0	0	0				Instant: 30 Sec Perm 45 70 PERMISSION_30_SECONDS L
1	1	1	0	0	0	1				Instant: 1 Min Perm 45 58 PERMISSION_1_MIN L
1	1	1	0	0	1	0				Instant: 2 Min Perm 45 59 PERMISSION_2_MIN L
1	1	1	0	0	1	1				Instant: 5 Min Perm 45 60 PERMISSION_5_MIN L
1	1	1	0	1	0	0				Instant: 10 Min Perm 45 61 PERMISSION_10_MIN L
1	1	1	0	1	0	1				Instant: 30 Min Perm 45 62 PERMISSION_30_MIN L
1	1	1	0	1	1	0				Instant: 1 Hour Perm 45 63 PERMISSION_1_HOUR L
1	1	1	0	1	1	1				Instant: 3 Hour Perm 45 64 PERMISSION_3_HOUR L
1	1	1	1	0	0	0				Instant: 12 Hour Perm 45 65 PERMISSION_12_HOUR L
1	1	1	1	0	0	1				Instant: AP Unlock 45 34 AP_UNLOCK U
1	1	1	1	0	1	0				Instant: AP Lock 45 33 AP_LCK L
1	1	1	1	0	1	1				Instant: E-purchek Arm-1 45 78 E_PURCHEK_ARM_1 L E F
1	1	1	1	1	0	0				Instant: E-purchek Lock 45 54 E_PURCHEK_DOORLOCK E F
1	1	1	1	1	0	1				Instant: E-purchek Arm-2 45 79 E_PURCHEK_ARM_2 L E F
1	1	1	1	1	1	0				Instant: E-purchek Disarm-1 45 57 E_PURCHEK_DISARM_1 E F
1	1	1	1	1	1	1				Instant: E-purchek Disarm-2 45 56 E_PURCHEK_DISARM_2 L E
DIP Switch Positions			Command Type			Rssi	Code	BPKT TYPE		0 1 2
										Slots Used

Contacting Gatekeeper Systems

For more information about the Long Range Transmitter 2 and troubleshooting, to order parts or report an issue, contact the Gatekeeper Systems Inc. regional Customer Support office nearest to your location.

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