

LIFT

CABLELESS CONTROL SYSTEM
FOR MOBILE APPLICATIONS



autec

AJM 
**RADIO &
CONTROLS**
(Pty) Ltd



LIFT handhelds

The LIFT series brings AUTEC's well known reliability to a compact and advantageous form factor that is the perfect choice for the control of mobile applications such as tippers, mobile vehicles and trolleys. Operators will appreciate the efficiency and ergonomics of the LIFT, and the new "MY LIFT AUTEC" App will help reduce installation and maintenance times, and maximize machine availability.

Models and battery options

The LIFT is available with 4, 6, or 8 dual-depression buttons (the T4/T6/T8 respectively). In each case, the lowest button on the right side is dedicated to the START function, and may optionally be used to sound the machine horn. All models have 4 x LEDs which can display the machine information.

Models are available with "consumer" single-use or "professional" rechargeable batteries:

- the T4C/T6C/T8C models utilize "consumer" standard internal batteries (3 x AAA);
- the T4B/T6B/T8B models are supplied with "professional" 2 x swappable Li-Ion batteries and a battery charger.



Main features

• Latest Bluetooth® technology	• Multi-function commands (latching, momentary, switch "1, 1+2, 2"; "1/2")
• License free operation worldwide	• Work area 75 meters (246 ft)
• GSS/EMS/ATS performance up to PL d / SIL2; cat. 3 (according to EN ISO 13849-1 and EN IEC 62745:2017)	• Protection degree IP65/Type 4
• Access is restricted to authorized users using either a PIN code or a contactless T-Key	• Display of machine status with 4 LEDs (Data Feedback)
	• 3x1.5 V AAA "consumer" batteries (~90 h autonomy) or "professional" external Li-Ion battery (~40 h autonomy, rechargeable)
	• Customizable labeling: whole panel or pushbuttons symbols kit

Radio communication

Communication between the machine and the cableless control system is over Bluetooth®, and proprietary AUTEC technology is used to further secure the connection against intrusion. Each LIFT system is uniquely coded to ensure only the matching portable station can be used to control the machine, as required by Machinery Directive 2006/42/EC and EN IEC 60204-1. The LIFT cableless control system operates on the 2.4 GHz band, which is generally available worldwide and which supports a large number of devices operating simultaneously in an area. The Frequency-Hopping Spread Spectrum (FHSS) techniques used by the LIFT will automatically select the cleanest radio channels from those available, and continually and rapidly hop between them in a pseudo-random pattern that differs for each system. The resulting communication link is designed to resist against external interference, and also creates negligible interference to other devices.



"MY LIFT AUTEC" configuration software

The LIFT system can be configured by authorized OEMs or users with a smartphone App called "MY LIFT AUTEC".

Among the configurable features are:

- pairing of a replacement portable station (in the event of loss or damage of the existing unit);
- setting of the PIN code used for access control;
- setting of the auto-shutdown time (when the portable station is unused for a period of time).

"MY LIFT AUTEC" is free, available for both Android and iOS, and requires online registration.

GSS function

General Safe Stop and AuTomatic Stop are essential parts of the system. GSS and ATS are safety functions compliant to EN IEC 62745:2017, the new international standard for cableless control systems. An operator using a LIFT handheld can choose the best location from which to do so, while always having the GSS available to take the machine to a safe state if the STOP mushroom is pressed. All LIFT models have a dual-redundant and monitored GSS circuit and robust STOP mushroom with positive breaking contacts (compliant to IEC 60947-5-5). The connection between the portable station and base station is maintained and continuously monitored by the ATS function.

International approvals

LIFT series reached:

- the approvals in Europe, USA, Canada, Australia and China.
- the **approval by Bluetooth SIG (Special Interest Group)** the standards organization that oversees the development of Bluetooth standards and the licensing of the Bluetooth technologies and trademarks to manufacturers.

T-Key

As an alternative to the PIN code, use of the LIFT handheld can be restricted to authorized operators using a contactless hardware key in the bottom of the portable station (the T-Key). The cableless control system is disabled if the T-Key is removed.

Base station DCRV12

This highly compact base station operates with 12-24 VDC input voltage, has 12 outputs (4 relays, 8 MOSFET) and an optional expansion board that can provide additional outputs or other features.

The main strength points of this base station are IP65/Type 4 protection degree, the expansion board and the external antenna options available.

Power supply

12-24 VDC

Rated load of GSS contacts

5 A (30 VDC)

Commands/MOSFET rated current

5 A (30 VDC)

Connecting interfaces

cable gland / 16 or 24 pin plug

Max dimensions

150x134.5x60 mm (5.9x5.29x2.36 in)

Weight

1 kg (2.2 lb)



Connection with cable gland
or 16 or 24 pin plug

Standard accessories



Battery charger
(for Li-Ion battery version only)



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