ELFATEK®

IMAGINE, DESIGN, MANUFACTURE.

www.elfatek.com.tr

In 2006, Elfatek Elektronik co-founders carried their 15 years industrial electronics know-how expertise to develope the first 80 channels and 120 hours battery life radio remote crane control systems in Turkey.

Driven by a team of highly motivated and talented engineers, the company has technologically grown with activities in various industrial fields Today Elfatek has become a leading designer and manufacturer of industrial radio controls used in crane sector in Turkey.

Elfatek manufacture all electronic and mechanical parts to the need of customers with the highest quality and supports.

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PRODUCT DETAILS

DESIGN

Ergonomic design.

EASY REMOVABLE BATTERY / COVER

1 Screw, easy removable.

Availalbe to work with 2 AA alkaline batteries.
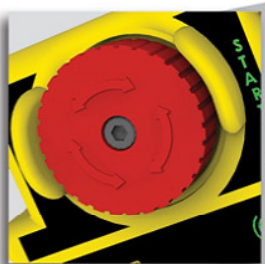
START BUTTON

Start button is also used as horn button on MAX models.

*Start/Horn is same button on MAX models.

SELECTABLE KEY

$\begin{pmatrix} 0\text{-}1 \\ 1\text{-}0\text{-}2 \\ AUX \end{pmatrix}$ Selectable key or AUX optional.

*AUX: Extra output

EMERGENCY STOP BUTTON

Impact resistant emergency button design.

SECURITY KEY

Allows to restrict the use of the equipment only to authorized personnel.

*Available in MID and MAX models.

EN SERIES STANDARD PRODUCTS

201	2 Buttons Single Step Radio Remote Crane Control System	801 - S1	8 Buttons Single Step ,With 0-1 Selectable Switch RRCCS
201 -A	2 Buttons Single Step + AUX Output Radio Remote Crane Control System	802 - S1	8 Buttons Double Step, With 0-1 Selectable Switch RRCCS
202	2 Buttons Double Step Radio Remote Crane Control System	801 - S2	8 Buttons Single Step, With 1-0-2 Selectable Switch RRCCS
202 - A	2 Buttons Double Step + AUX Output Radio Remote Crane Control System	802 - S2	8 Buttons Double Step, With 1-0-2 Selectable Switch RRCCS
401	4 Buttons Single Step Radio Remote Crane Control System	1001	10 Buttons Single Step Radio Remote Crane Control System
401 -A	4 Buttons Single Step + AUX Output Radio Remote Crane Control System	1001 - A	10 Buttons Single Step + AUX Output Radio Remote Crane Control System
402	4 Buttons Double Step Radio Remote Crane Control System	1002	10 Buttons Double Step Radio Remote Crane Control System
402 - A	4 Buttons Double Step + AUX Output Radio Remote Crane Control System	1002 - A	10 Buttons Double Step + AUX Output Radio Remote Crane Control System
601	6 Buttons Single Step Radio Remote Crane Control System	1001 - S1	10 Buttons Single Step, With 0-1 Selectable Switch RRCCS
601 - A	6 Buttons Single Step + AUX Output Radio Remote Crane Control System	1002 - S1	10 Buttons Double Step, With 0-1 Selectable Switch RRCCS
602	6 Buttons Double Step Radio Remote Crane Control System	1001 - S2	10 Buttons Single Step, With 0-1-2 Selectable Switch RRCCS
602 - A	6 Buttons Double Step + AUX Output Radio Remote Crane Control System	1002 - S2	10 Buttons Double Step, With 0-1-2 Selectable Switch RRCCS
601 -S1	6 Buttons Single Step, With 0-1 Selectable Switch RRCCS	1201	12 Buttons Single Step Radio Remote Crane Control System
602 - S1	6 Buttons Double Step, With 0-1 Selectable Switch RRCCS	1201 - A	12 Buttons Single Step + AUX Output Radio Remote Crane Control System
601 - S2	6 Buttons Single Step, With 1-0-2 Selectable Switch RRCCS	1202	12 Buttons Double Step Radio Remote Crane Control System
602 - S2	6 Buttons Single Step, With 1-0-2 Selectable Switch RRCCS	1202 - A	12 Buttons Double Step + AUX Output Radio Remote Crane Control System
801	8 Buttons Single Step Radio Remote Crane Control System	1201 - S1	12 Buttons Single Step, With 0-1 Selectable Switch RRCCS
801 - A	8 Buttons Single Step + AUX Output Radio Remote Crane Control System	1202 - S1	12 Buttons Double Step, With 0-1 Selectable Switch RRCCS
802	8 Buttons Double Step Radio Remote Crane Control System	1201 - S2	12 Buttons Single Step, With 1-0-2 Selectable Switch RRCCS
802 - A	8 Buttons Double Step + AUX Output Radio Remote Crane Control System	1202 - S2	12 Buttons Double Step With 1-0-2 Selectable, Switch RRCCS

*RRCCS - Radio Remote Crane Control System

EN SERIES RADIO REMOTE CONTROL

EN ECO, MID and MAX concepts was specially designed for ease of use.
EN Series Remotes are mainly used in construction cranes, overhead travelling cranes and in different kinds of applications. New series can be used in rolling plant, iron & steel, marble and many different industries. The remote body case is designed to stand impacts and harsh environment. Remote buttons are single & double step and can be used with gloves.

- EN Series are manufactured 2,4,6,8,10 & 12 buttons. EN Series have 3 different models EN-ECO,EN-MID and EN-MAX.
- EN MID and MAX Series have removable security key. It can be used safely only by authorized personnel.
- Start button can also be used as Horn button in MAX models.
- EN MID & MAX Series have replaceable frequency (i-Chip). If any remote is out of order it can be changed with any other EN MID & MAX transmitter chip and you can continue to work without stopping.
- EN ECO Series was manufactured to find economical solutions.
- In all series, different configurations are available as AUX buttons or (0-1), (1-0-2) selectable keys.
- In all series emergency stop button, low battery, signal,emegency and status LEDS are available

1 SET

- 1 receiver unit
- 1,5 meter cable
- 1 transmitter unit
- 1 protection case and withstand
- 2 AA Duracell batteries
- 4 receiver assembly bolts
- 2 pcs spare glass fuse (1 A. and 6 A.)
- User manual ,certificate of warranty, connection scheme and CE Certificate
- MID and MAX Series have one security key and one as spare.
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EN SERIES TECHNICAL SPECIFICATIONS

TRANSMITTER UNIT			
MODEL	ECO	MID	MAX
FREQUENCY	2.4 GHz I.S.M. BAND		
BUTTON UNIT	2,4,6,8,10	2,4,6,8,10,12	2,4,6,8,10,12
CHANNEL NUMBER	80		
OPERATING DISTANCE	≈ 100 m		
EMISSION POWER OF THE R.F. SYSTEM	10 mW ERP (INTERNAL ANTENNA)		
AVAILABLE PAIRING ADDRESS	65536		
DELAY TIME ON RECEIVER START	< 1 s		
COMMAND RESPONSE TIME	< 20 ms		
EMERGENCY RESPONSE TIME	< 20 ms		
OPERATING TEMPERATURE RANGE	-40 °C ~ +85 °C		
ENCLOSURE PROTECTION RATING	IP 65		
MATERIAL	POLYAMID		
POWER REQUIREMENTS	3 VDC		
BUTTON DIAMETER	20 MM		
DRAWN CURRENT	10mA		
BATTERY	2xAA BATTERY		
CONTINUOUS OPERATION	≥ 300 hours		
ADVICED TIME BATTERY LOW SIGNAL	30 dk (DURACELL BATTERY)		
BUTTON 2 (INCLUDED BATTERY)	≈ 277 GR		
BUTTON 4 (INCLUDED BATTERY)	≈ 290 GR		
BUTTON 6 (INCLUDED BATTERY)	≈ 330 GR		
BUTTON 8 (INCLUDED BATTERY)	≈ 370 GR		
BUTTON 10 (INCLUDED BATTERY)	≈ 410 GR		
BUTTON 12 (INCLUDED BATTERY)	≈ 450 GR		

RECEIVER UNIT	
FREQUENCY	2.4 GHz I.S.M BAND
CHANNEL NUMBER	80
OPERATING DISTANCE	≈100 m
ON/OFF UNIT	MODELS HAVE DIFFERENT SIZES
AVAILABLE PAIRING ADRESSES	65536
DELAY TIME ON RECEIVER START	< 1 s
COMMAND RESPONSE TIME	< 20 ms
EMERGENCY RESPONSE TIME	< 20 ms
OPERATING TEMPERATURE RANGE	-40 °C ~ +85 °C
ENCLOSURE PROTECTION RATING	IP 65
MATERIAL	POLYAMID
POWER REQUIREMENTS	48-110-220 VAC or (7-35VAC~10-50VDC)
POWER DEMAND	3.2W MAX.
OUTPUT RELAY CONTACT CAPACITY	10A 230 V
STOP RELAY CONTACT CAPACITY	10A 230 V
SIZES	MODELS HAVE DIFFERENT SIZES
MAX. WEIGHT	MODELS HAVE DIFFERENT SIZES

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