ALMEC MECHATRONICS

ALNWR

DIGITAL RADIO PUSHBUTTON

The ALNWR is a pushbutton designed for remote control applications of machines and equipment equipped with the radio receiver RDC EVO.

The device has an emergency button for safety functions and 16 keys keypad with a backlight and integrated spotlight led.
If required, up to 2 side buttons can be installed for custom applications e.g., for duplicates the functionality of each button or DMS function.
The keyboard graphic can be customized to best fit the machine application.

The hamming security code and the packet communication protocol allow for a reliable radio connection and continuous work without any interruptions caused by radio interference on the 434 or 868 MHz band.

TECHNICAL FEATURES		
MASTER CODE		ALNWR
POWER SUPPLY		3.7V 2000 mAh Li-ion INTEGRATED BATTERY
BUTTONS	**TOTAL 19**	N. 16 FRONTAL KEYS (WITH INTEGRATED BACKLIGHT AND SPOTLIGHT) N. 1 LEFT SIDE BUTTONS (OPTIONAL) N. 1 RIGHT SIDE BUTTON (OPTIONAL) N. 1 EMERGENCY STOP BUTTON
LED	**TOTAL 17**	N. 16 PROGRAMMABLE SPOTLIGHT LEDS (PUSHBUTTONS INTEGRATED) N.1 STATUS LED (GREEN & RED BICOLOR) OPTIONAL: ADDITIONAL N.2 BICOLOR LED
RADIO FEATURES		BAND: 868 MHz (869.700-870.00 MHz) / 434 MHz (433.050-434.790 MHz) CHANNELS: 12 (AUTOMATIC FREQUENCY SCAN) MODULATION: 2-GFSK ANTENNA: INTEGRATED
RADIO PROTOCOL		PACKET TRANSMISISON PROTOCOL BIDIRECTIONAL LINK HAMMING DISTANCE = 4 SAFETY STOP INTERVENTION TIME < 0,5s
AUTONOMY		UP TO 24 HOURS IN CONTINUOS TRANSMISSION
RECHARGE		10 HOURS (MAX)
CONNECTIONS		INTEGRATED BATTERY CHARGER CONNETOR (9÷36 VDC FROM EXTERNAL POWER SOURCE @ 0+40°C)
WORKING TEMPERATURE		-10°C +60°C
PROTECTION		IP64

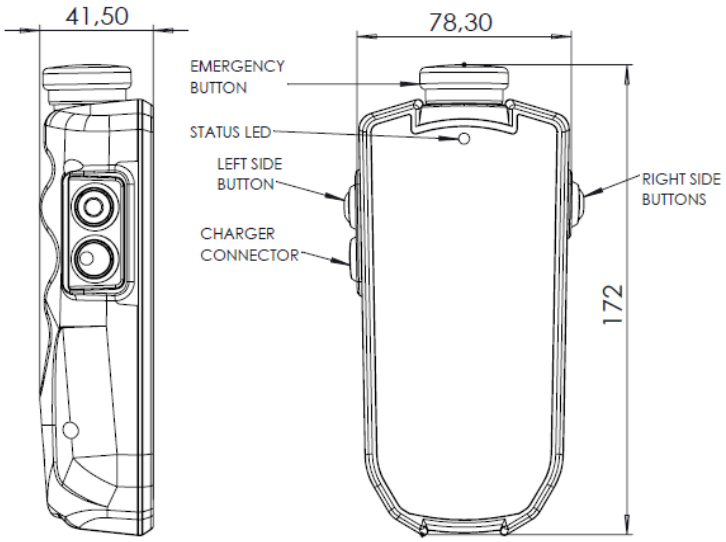
ELECTRONIC FEATURES	
INTERNAL SYSTEM CONTROL	LOGIC MICROPROCESSOR WATCHDOG
CYCLE TIME	< 10 ms

Scan me

ALMEC S.p.A. (a socio unico) - Via Torino 196 - 12063 - Dogliani (Cn) - P.IVA/C.F./Reg.Imp.: 02834380046 - Cap. Soc. € 323.400 -
Tel. +39 0173 742821 - www.almec.net - info@almec.net - Società soggetta a direzione e controllo di MILC S.r.l. (R.I. Cuneo n° 04064750047)

STANDARDS	
ELECTROMAGNETIC (EMC)	ACCORDING TO DIRECTIVE 2014/30/EU: EN 61000-6-4 EN 61000-6-2 EN 50498
INFORMATION TECHNOLOGY EQUIPMENT – SAFETY	EN 60950-1
RADIO SPECTRUM MATTERS (RED)	ACCORDING TO DIRECTIVE 2014/53/EU: ETSI EN 300.220-1 ETSI EN 300.220-2 ETSI EN 301.489-1 ETSI EN 301.489-3
EMEGENCY STOP BUTTON (manufacturer's specification)	EN60947-5-1 EN60947-5-5
ACCORDING WITH THE EN50498 THE DEVICE MEETS THE TECHNICAL SPECIFIC REQUIREMENTS OF 2004-104 DIRECTIVE (AUTOMOTIVE).	

SIZE (mm)



NOTE: THE BATTERY CHARGER CONNECTOR AND THE RIGHT SIDE BUTTON MAY BE EXCHANGED ON REQUEST

FEATURES

BATTERY CHARGER with spiral cable included
INPUT: 12/24 VDC

OPTIONAL:
BATTERY CHARGER with spiral cable
INPUT: 220/230 VAC

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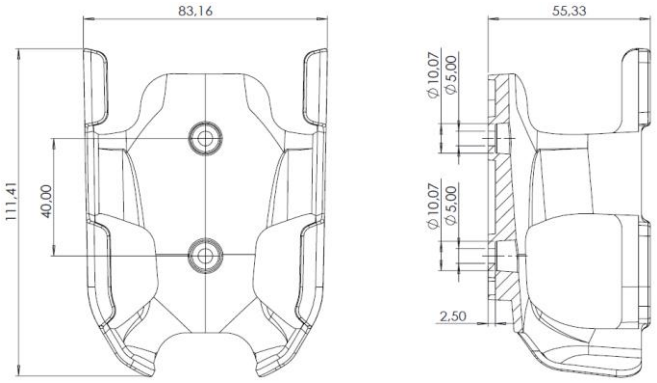
FEATURES

MOUNTING BRACKET



CUSTOMIZABLE KEYBOARD GRAPHIC

OPTIONAL

INTEGRATED MAGNETIC BRACKET

FAUX LEATHER CASE
with rear spring clips for belt attachment and lid with velcro closure for quick withdrawal.

CONFIGURATION SAMPLE (ALMEC PRODUCTS COMBINATION)

TECHNICAL FEATURES (SEE THE DATASHEET ON WEB FOR MORE INFORMATION)	
MASTER CODE	RDC EVO
POWER SUPPLY	9 - 30 VDC
COMMUNICATION	NETWORK: CAN BUS 2.0B COMPLIANT – (11, 29 BIT) – ISO 11898-2 UP TO 1Mbit/s RADIO: 868 MHz / 434 MHz BAND
CONNECTIONS	MAIN: TE DEUTSCH DTF13-6P
	ANTENNA: SMA socket
CASE	ENCAPSULATED IN PUR RESIN - SELF-EXTINGUISHING UL94 (V0)

ALNWR	RDC EVO
RADIO TRANSMITTER	RADIO RECEIVER

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NOTE