

The ALMPO SMALL is an HMI (human-machine interface) designed for diagnosis, parametrization and control applications of machines and equipment equipped with a CAN BUS or SERIAL networks.

The device is equipped with a customizable graphics label, up to 9 key keyboards with backlight and a 16x2 characters display for intuitively status and diagnose viewing of the machine.

Two versions are available: The basic version and full version 8 (with I/O).



the image is for illustrative purposes only

TECHNICAL FEATURES

	BASIC VERSION	FULL VERSION
CODE	ALMPO.B	ALMPO.F
POWER SUPPLY	9 ÷ 36 VDC	
INPUT	NO	N.2 DIGITAL INPUTS HIGH SIDE
OUTPUT	NO	N.2 DIGITAL HIGH SIDE OUTPUT (MAX 1 A MAX)
BUTTON	N. 6 FRONTAL KEYS (WITH BACKLIGHT)	N. 9 FRONTAL KEYS (WITH INTEGRATED BACKLIGHT AND SPOTLIGHT)
LED	N. 3 PROGRAMMABLE LEDS	N. 9 PROGRAMMABLE SPOTLIGHT LEDS (PUSHBUTTONS INTEGRATED)
CAN BUS PROTOCOLS	CAN OPEN (CIA DS401 DEVICE PROFILE FOR GENERIC I/O MODULE, WITH DS306 EDS FILE) ON REQUEST: SAE J1939	
CAN BUS	N.1 PORT: 2.0 A/B COMPLIANT - (11, 29 BIT) - ISO 11898 - UP TO 1MBIT/S*	
SERIAL	N.1 SERIAL PORT CONNECTION TTL*	
DISPLAY	LCD TYPE: MONOCROMATIC FSTN	
	16 CHARACTERS X 2 LINES	
	VISUAL AREA: 64.6 (W) X 16.0 (H)	
BUZZER	OPTIONAL	YES
CONNECTIONS	N.1 - M12 4 PIN MALE CONNECTOR	N.1 - M12 8 PIN MALE CONNECTOR
WORKING TEMPERATURE	-20°C +70°C	
MATERIAL	ENCLOSURE: ABS UL94 V0	



*NOTE: The device can only support CAN port OR serial port



ELECTRONIC FEATURES

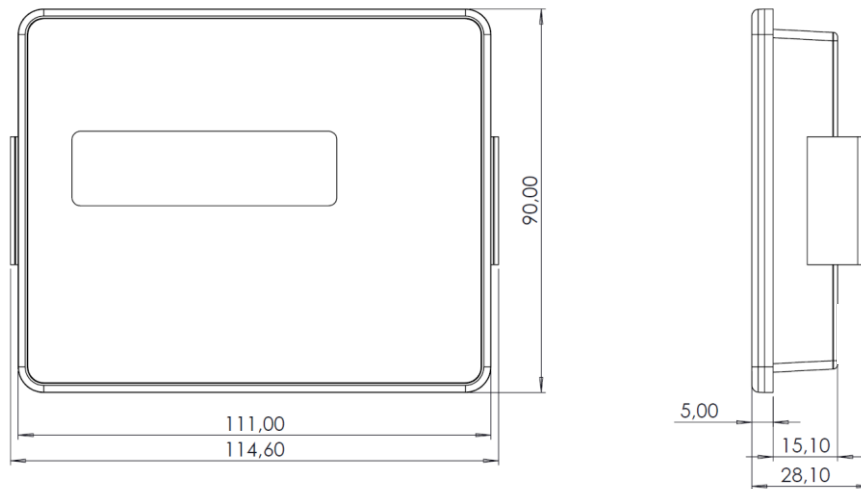
SLAVE USAGE	EDS FILE
PROGRAMMING	FIRMWARE UPLOAD BY CAN BUS WITH ALOADER SOFTWARE TOOL
CPU	FAMILY: ARM CORTEX M4, 32 bit MICROCONTROLLER CORE
MEMORY	STORAGE: 128 KB RAM: 16 KB

STANDARDS

ELECTROMAGNETIC EMISSIONS	EN 61000-6-4// EN 55011 (RF RADIATE)
ELECTROMAGNETIC IMMUNITY	EN 61000-6-2// EN 61000-4-2/3/4/6
PROTECTION	IP 65 ON THE FRONTAL KEYBOARD

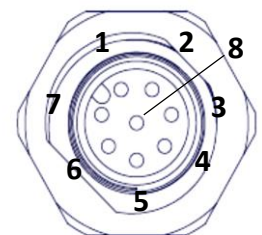
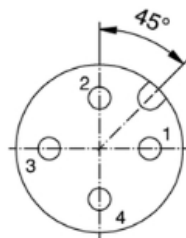
IN ACCORDANCE WITH THE EN50498 THE DEVICE MEETS THE TECHNICAL SPECIFIC REQUIREMENTS OF 2004-104 DIRECTIVE (AUTOMOTIVE). THE DEVICE IS EMC 2004/108 COMPLIANT.

SIZE (mm)



ELECTRICAL CONNECTION

BASIC VERSION		FULL VERSION	
1	POSITIVE POWER SUPPLY	1	POSITIVE POWER SUPPLY
2	CAN L / RS232 TX	2	IN 1
3	NEGATIVE POWER SUPPLY	3	CAN H / RS232 RX
4	CAN H / RS232 RX	4	IN 2
		5	NEGATIVE POWER SUPPLY
		6	OUT 1
		7	CAN L / RS232 TX
		8	OUT 2



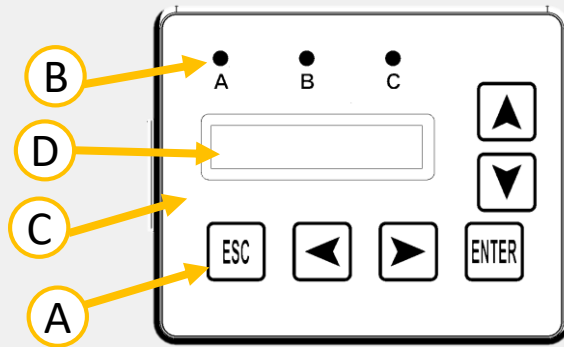


FEATURES

BASIC VERSION

DEVICE CONFIGURATION

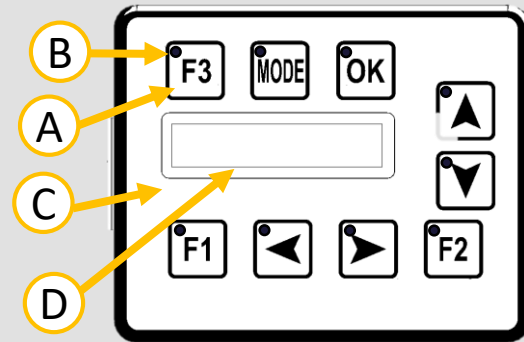
- A. PUSHBUTTON WITH BAKCLIGHT (6 TOTAL)
- B. RED MONOCROME LED (6 TOTAL)
- C. CUSTOMIZABLE GRAPHIC LABEL
- D. 16x2 CHARACTER DISPLAY



FULL VERSION

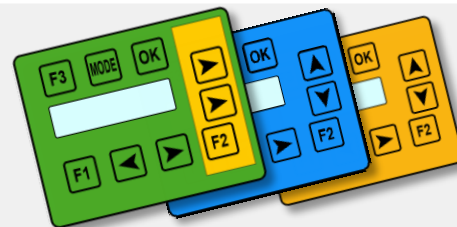
DEVICE CONFIGURATION

- A. PUSHBUTTON WITH BAKCLIGHT (9 TOTAL)
- B. INTEGRATED RED SPOTLIGHT BUTTON (9 TOTAL)
- C. CUSTOMIZABLE GRAPHIC LABEL
- D. 16x2 CHARACTER DISPLAY



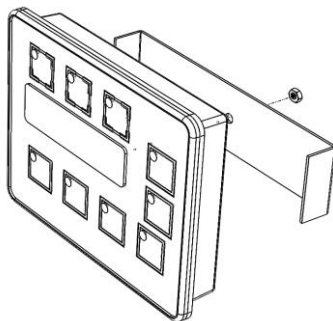
CUSTOMIZABLE KEYBOARD LABEL

pictograms and company logos



INSTALLATION

PANEL MOUNTING, WITH WALL MOUNT BRACKET INCLUDED



PANEL CUTOUT



PANEL THICKNESS: MIN: 0,8mm – MAX: 4 mm

INCLUDED: ADHESIVE RUBBER GASKET FOR WATER TIGHTNESS



ALMEC
MECHATRONICS

NOTE