Tech-note

UniOP ePALM10

The ePALM10 is a state-of-the-art handheld HMI device with a graphic display and a keypad. The rugged polyamide enclosure offers a high level of shock and environmental resistance making the ePALM the ideal choice for use in the factory floor.

- Graphical display 120x64 pixels (up to 8 lines 20 characters)
- Highly visible transflective LCD display
- 27-keys keypad with tactile feedback
- Connection to industrial bus systems
- Large memory size (512 KB Flash)
- IP65 protection
- Includes Emergency Stop button
- Includes enabling switches, normal or 3-positions
- Available in version for connection to Ethernet and Profibus DP

Highlights

The ePALM HMI panels are the handheld products of the UniOP family. All of the ePALM products support the rich common functionality of the UniOP operator panels:

- Versions available for connection to Ethernet and Profibus DP. Ethernet version allows connection to field devices as well as programming the HMI from Designer.
- Powerful and intuitive programming with the UniOP Designer 6 software
- Support of more than 130 communication drivers for industrial devices
- Transflective LCD display ensures readability under the most critical light conditions
- Optional modules for fieldbus systems (Profibus DP, CANopen, DeviceNet, Interbus) and Ethernet. Ethernet modules allow connection to field devices as well as programming the HMI from Designer.
- Display dynamic data in numerical, text, bargraph and graphic image formats
- Recipe data storage. Recipe data can be transferred to an host computer using the Ethernet connection.
- Multilanguage applications. The number of runtime languages is limited only by the available memory. All text information in the application can be exported in Unicode format for easier translation.
- Powerful macro editor to configure keypad operation
- Alarms and historical alarm list. Alarm and event information can be printed or transferred to an host computer using the Ethernet connection.
- Eight level password protection.
- Report printing to serial printer. Reports are freely configurable using Designer.
- Ethernet-based UniNet network to share data between UniOP HMIs and to serve data using UniNet OPC Server.

In addition some unique features make the ePALM10 a perfect fit for handheld operation.

- Emergency Stop button. Hardwired.
- Enabling switches. Hardwired.
- High-quality polyurethane cable for mobile applications.

Technical Data

Display	
Type	Transflective LCD monochrome
Resolution	120x64 pixel
Active display area	66x33 mm
Backlight	LED
Dimming	-
Contrast	Software
Memory	
User memory	512 KB Flash
User memory expansion	-
Front panel	
Touch screen	-
Function keys	9
System keys	18
User LED's	20
System LED's	5
Interfaces	
PC/Printer port	See below
PLC port	See below
Aux port (fieldbus and Ethernet)	See below
Serial programming speed	9600 – 38400 bps
Functionality	
Vector graphics	-
Dual driver capability	-
Data acquisition and trends	-
Recipe memory	16 KB
UniNet network	Client/Server

Alarms	1024
Event list	256
Password	Yes
Hardware RTC	Yes, battery backed
Screen saver	-
Buzzer	-
Battery	3 V 270 mA Lithium, non rechargeable, user replaceable, model CR2430. Replace with same component or equivalent compatible with the operating temperature of the product.
Ratings	
Power supply voltage	18 - 30 VDC
Current consumption	~ 300 mA at 24 VDC
Fuse	Automatic
Weight	~ 0.5 Kg (not including cable)
Min thickness of cable	7 mm diameter
Max thickness of cable	11 mm diameter
Environmental Conditions	
Operating temperature	0 to 50 °C
Storage temperature	-20 to +70 °C
Operating and storage humidity	5 – 85 % RH non-condensing
Protection class	IP65
Dimensions	
A	116 mm (4.56")
B	86 mm (3.38")
C	102 mm (4.01")
D	239 mm (9.41")

The product is designed for installation in industrial environments in compliance with the regulations:
Emitted interference EN 61000-6-4, 2001
Noise immunity EN 61000-6-2, 2001
All circuits in this handheld product, including the wiring of the emergency stop button and the enabling switches, must be considered SELV circuits. They will have to be wired in compliance with EN 60950.

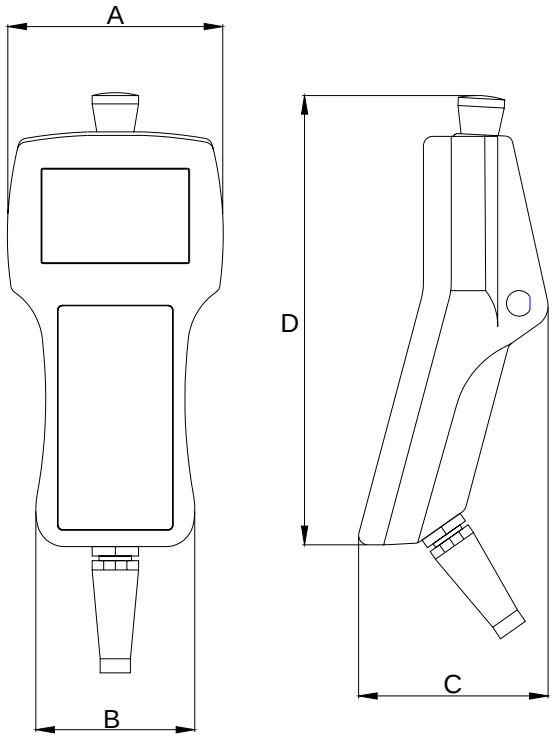

Figure 1 – Cutout and front view

Model	Cable Type/Length	PC/Printer Port	PLC Port	Module	Enabling switches
ePALM10-0061	Serial/5m	Yes	Yes	-	two normal
ePALM10-0062	Serial/10m	Yes	Yes	-	two normal
ePALM10-3P61	Serial/5m	Yes	Yes	-	one 3-position
ePALM10-3P62	Serial/10m	Yes	Yes	-	one 3-position
ePALM10-0066	Ethernet/5m	-	-	SCM11	one 3-position
ePALM10-0068	Ethernet/10m	-	-	SCM11	one 3-position
ePALM10-0069	Profibus DP/5m	Yes	-	TCM08	one 3-position
ePALM10-0067	Profibus DP/10m	Yes	-	TCM08	one 3-position

Ordering Information

ePALM10-0061	ePALM10 handheld HMI with cable for serial connection (length 5 meters)
ePALM10-0062	ePALM10 handheld HMI with cable for serial connection (length 10 meters)
ePALM10-3P61	ePALM10 handheld HMI with cable for serial connection (length 5 meters), one 3-positions enabling switch
ePALM10-3P62	ePALM10 handheld HMI with cable for serial connection (length 10 meters) , one 3-positions enabling switch
ePALM10-0066	ePALM10 handheld HMI with cable for Ethernet connection (length 5 meters), includes SCM11 and one 3-positions enabling switch
ePALM10-0068	ePALM10 handheld HMI with cable for Ethernet connection (length 10 meters), includes SCM11 and one 3-positions enabling switch
ePALM10-0069	ePALM10 handheld HMI with cable for Profibus DP connection (length 5 meters), includes TCM08 and one 3-positions enabling switch
ePALM10-0067	ePALM10 handheld HMI with cable for Profibus DP connection (length 10 meters), includes TCM08 and one 3-positions enabling switch
AHOOK01	Hook set without magnet
AHOOK02	Hook set with magnet

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