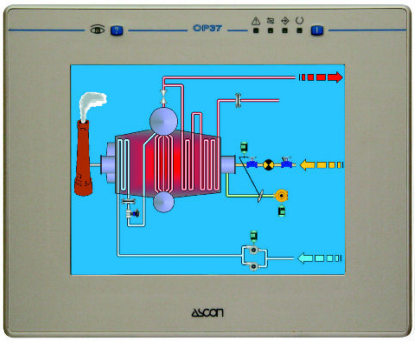
Operator Panel OP37

The OP37 is a state-of-the-art HMI device featuring a touch screen interface and 7.5" TFT color graphic display. The 64K colors brilliant TFT display increase the realism of images. Compact in size, with a bright display and VGA resolution, it is an ideal solution for applications where space is limited.

General Features

- **7.5" TFT color display**
- **VGA (640x480 pixels) resolution**
- **64K colors**
- **Resistive touch screen**
- **Connection to industrial bus systems and Ethernet (requires optional plug-in modules)**
- **32 MB internal user memory**
- **Compatible with video input module**
- **IP65 front panel protection**



Highlights

The OP37 HMI is part of Ascon's family of "OP" touch screen panels and supports the common functionalities of Ascon "OP" operator panels:

- Powerful and intuitive programming with Ascon Designer software
- Support of more than 130 communication drivers for third party devices
- Optional plug-in modules for connection to industrial fieldbus systems (Profibus DP, DeviceNet, Interbus, CanOpen…) and Ethernet (Modbus TCP/IP…).
- Dual-driver communication capability
- Vector graphic capabilities including support of multiple layers and object transparency
- Display data in numerical, text, bargraph and graphic image formats
- Dynamic graphic objects
- Extended bitmaps library of industrial objects for an easy representation of the process
- Multi-language support limited only by the available memory
- 8 Level password protection
- Powerful macro editor to configure touch screen operations

- Data Acquisition and Trend representation. Trend data can be transferred to host computer using Ethernet connection (optional) or the Data Exchanger tool using a serial connection
- Recipe Data Storage. Recipe data can be transferred to host computer using Ethernet connection (optional) or the Data Exchanger tool using a serial connection
- Realtime and Historical Alarms/Events list printable or transferable to host computer using Ethernet connection (optional) or the Data Exchanger tool using a serial connection
- Custom Reports can be printed to serial printers
- Ethernet or serial Client/Server or Master/Slave connection to share data between OP HMIs and to serve data using the OPC Server technology
- Video input option

Technical data

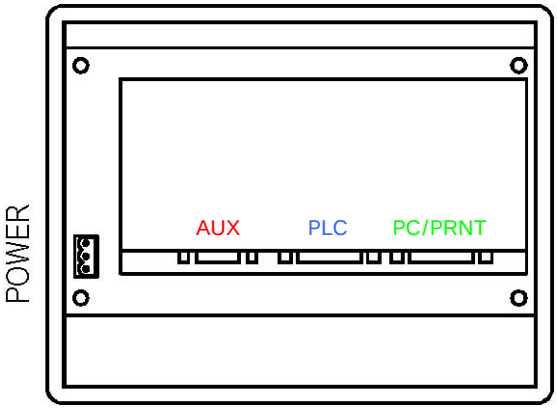
Display	
Type	TFT True colors
Resolution	VGA 640x480 pixels
Active display area	154x116 mm (7.5" diagonal)
Colors	64K
Backlight	CCFL, 50000 hours *
Brightness	330 cd/m² with automatic temperature compensation, adjustable via software
Dimming	Included
Memory	
User memory	32 MB internal Flash
User memory expansion	Optional removable 32 MB SSFDC memory card
Front panel	
Touch screen	Analog resistive
Function keys	1
System keys	None
User LED's	1
System LED's	4
Interfaces	
PC/Printer port	Included
PLC port	RS232, RS485, RS422, 20 mA Current Loop
Aux port (fieldbus and Ethernet)	With optional modules
RS232 prog speed	9600 – 38400 bps
Ratings	
Power supply voltage	18 – 30 VDC
Current consumption	Max 0.7 A at 24 VDC
Fuse	Automatic
Weight	1.6 Kg (3.5 lbs)

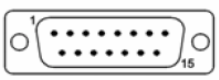
Functionality	
Vector graphics	Included
Dual driver capability	Included
Video input	Optional
Data Acquisition and Trends	Included
Recipe memory	32 KB
OP network	Client/Server
Number of Alarms	1024
Number of Events	1024
Password	Included
Hardware Real Time Clock	Battery backed
Screen saver	Included
Buzzer	Audible feedback for touch screen
Battery	3 V 270 mA Lithium, non rechargeable, user replaceable, model CR2430. Replace with same component or equivalent compatible with operating temperature of the product.
Environmental Conditions	
Operating temperature	0÷45 ºC (32 ÷ 122 ºF)
Storage temperature	-20÷70 ºC (-4 ÷ 158 ºF)
Operating and storage humidity	5÷85 % RH non-condensing
Protection class	IP65 (front panel)
Dimensions	
Faceplate L x H	232x187 mm (9.14x7.63")
Cutout A x B	221x176 mm (8.70x6.93")
Mounting depth (type 0045)	71 mm (2.80")
Max panel thickness	5 mm (0.2")

* the lamp lifetime is a typical value for continuous operations at 25 ºC (46 ºF)

This product is designed for installation in an industrial environment in compliance with the regulations:
- Emitted interference EN 61000-6-4, 2001
- Noise immunity EN 61000-6-2, 2001

Connections

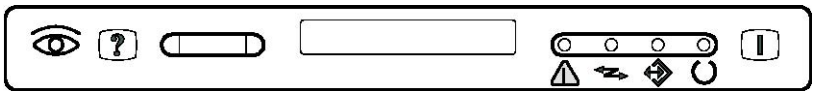




Pin	Description
1	Frame Ground
2	RXD
3	TXD
4	+5 V output (max 100 mA)
5	GND
6	Channel A-
7	Channel B-
8	Reserved
9	Reserved
10	RTS
11	CTS
12	Reserved
13	Reserved
14	Channel A+
15	Channel B+

Indicators

There are several dedicated LED indicators on the front panel of the unit. Functions are described in the table below. A customizable legend strip is included.



LED	Color	Status	Description
	red	OFF	No hardware problem detected
		BLINK	Battery low
		SOLID	Hardware fault
	green	OFF	No touch cell active
		SOLID	While any touch cell is active (visual feedback)
	green	OFF	Hardware fault
		SOLID	Unit in operation
	green	BLINK	Communication error
		SOLID	Communication OK
	red	OFF	No alarms
		BLINK	Alarm requires acknowledgment
		SOLID	Alarm active
	green		May be user controlled as LED number 65 using the Macro Editor. Turns ON when recipe/event backup is being performed.

The service area at the top of the panel also includes 2 buttons.

Button	Description
	User programmable with the Keyboard Macro Editor. Not available in RDA. Ascon Designer 5.08 SP7 or higher is required.
	Reserved for future use

Subject to change without notice.
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