



# OP44

## Operator panel

**OP44**

OP44 is a PC-based operator panel for connection to our industrial controller BiFas UHS. It meets highly set demands regarding graphics, screen updating and communication speed.

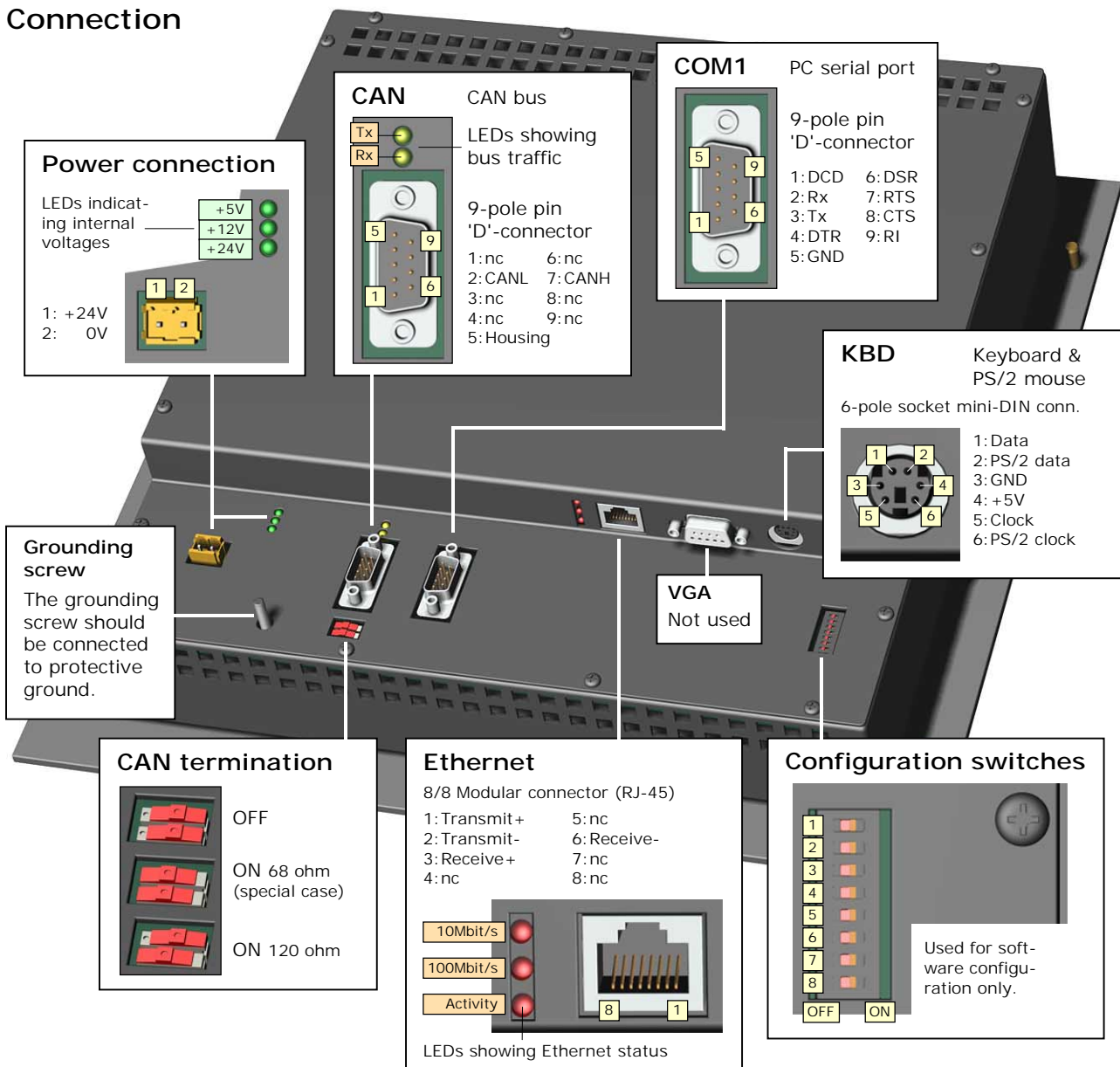
A 10.4" TFT color screen (VGA 640x480) gives excellent brightness and contrast.

It is designed for a tough industrial environment, where temperature, air and vibration conditions make great demands upon the equipment. Large buttons make the panel easy to operate, even if the operator is wearing gloves.

OP44 is very compact, requires minimal mounting depth and is easy to install and maintain. All connections to the panel are done via jackable connectors.

In OP44 the BiView software is used, which is an HMI-program (Human-Machine-Interface) with extremely short responding times. With this software operator communication and menus are created quickly and easily, even for the most demanding applications.

**Connection**



All communication cables connected to OP44 (i.e. CAN, COM1 and Ethernet) should be shielded. The cable shields should be connected to the contact housings which, consequently, also should be shielded.

The box chassis should be connected to protective ground. This is done by means of a ground strap attached to the grounding screw (see picture above).

**CAN bus**

**Cable length**

The following cable lengths may be used in conjunction with the specification given:

Bus speed	Max. total cable length (incl. any branch cable)	Max. length of possible branch cable
125 kbit/s	450 m	3.0 m
250 kbit/s	180 m	1.0 m
500 kbit/s	80 m	0.5 m

**Termination**

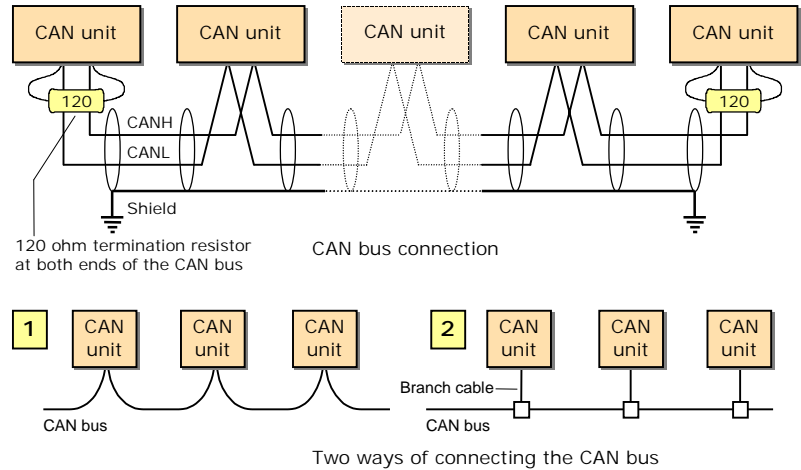
The CAN fieldbus should be terminated at both ends by a resistor of 120 ohm ¼W.

**Recommended cable**

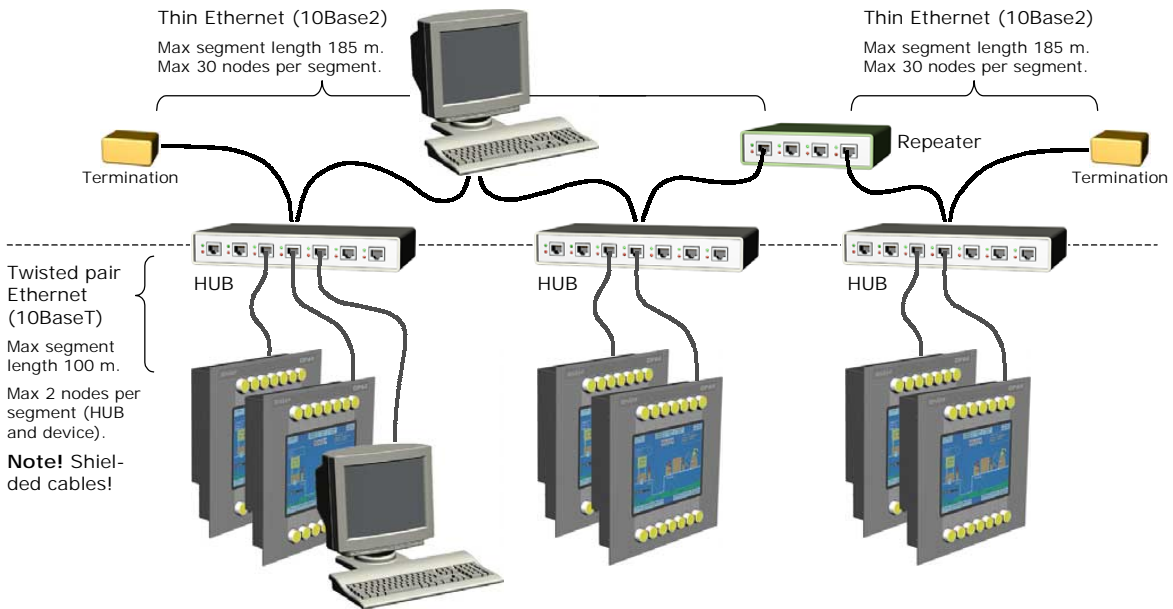
Type	Twisted pair, shielded
Transverse capacitance betw. wires	max. 60 pF/meter
Characteristic impedance	120 ohm
Suitable cable proposal	Unitronic® -BUS LD 1x2x0.22

**Connection**

The CAN fieldbus is connected and relayed via the CAN unit's connector as shown in example 1 of the figure to the right. The CAN units may also be connected with a branch cable from e.g. a junction box as shown in example 2, but the branch cable must not exceed the maximum length specified in the section "Cable length" above.

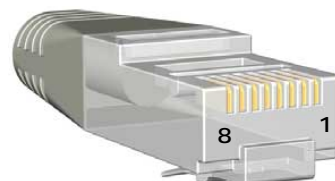


**Ethernet**



The figure above shows how to connect OP44 in a system where both Twisted Pair Ethernet (10baseT) and Thin Ethernet (10base2) are used. Note that the cable between OP44 and the HUB has to be shielded (type STP – Shielded Twisted Pair).

8/8 Modular connector for Twisted Pair Ethernet (10baseT)

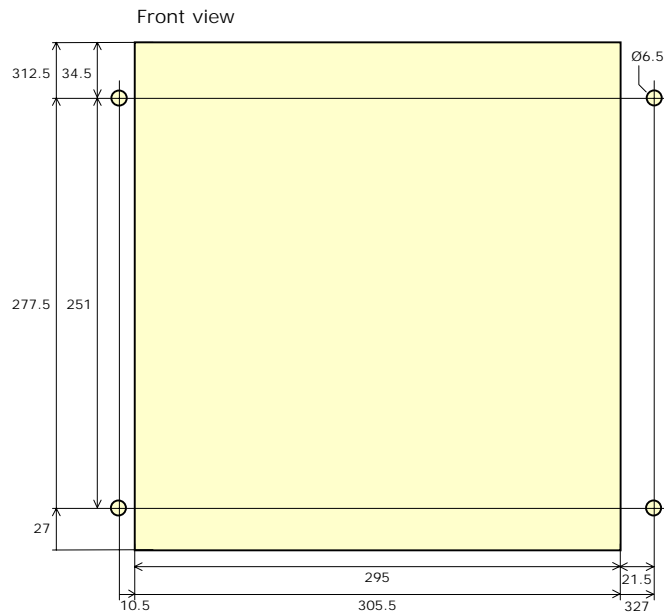


Pin	Signal	Core color
1	Transmit +	white/orange
2	Transmit -	orange
3	Receive +	white/green
4	not used	blue
5	not used	white/blue
6	Receive -	green
7	not used	white/brown
8	not used	brown

## Specifications

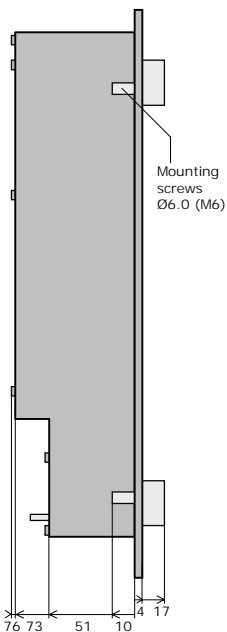
OP44 Technical data	
Flash disk	min 32 MB
Video	VGA 640x480
Screen	TFT 10.4"
No of control buttons	14, Ø 22 mm
Keyboard	PS/2 connector
CAN fieldbus connection	Basic CAN, opto isolated
Serial channel	COM1 RS232
Ethernet connection	10baseT, twisted pair
Supply voltage	24VDC 1.05A
Fuse	Internal, automatically reseted
CE	EN 50081-2 and EN 50082-2
Enclosure class	IP65 (front) / IP20
Temperature range	0-40°C
Weight	5.6 kg
Dimensions	w347 x h347 x d93

## Panel cut out

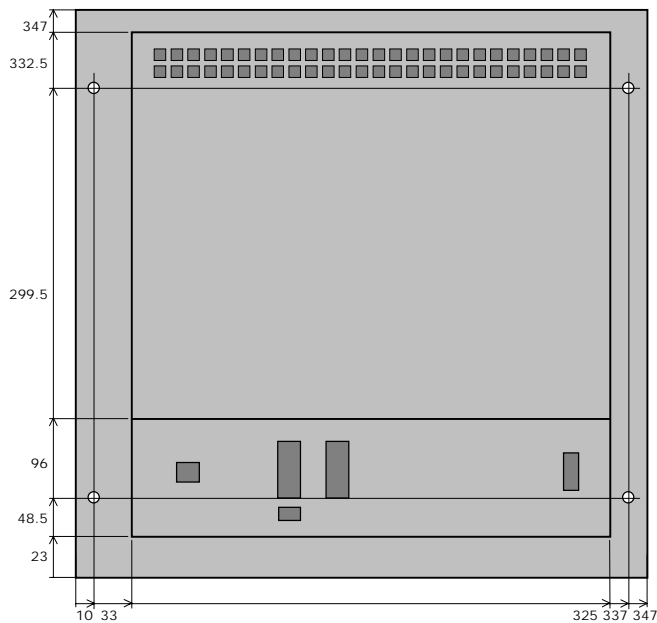


## Dimensions

Left side view



Back side view



## Mounting

