

Kemro K2

OP 340, OP 341 - Operator panel



The modular, open-ended operator panel

The OP 34x is designed as an operator panel for medium-tocomplex operations in conjunction with the controls of the Kemro K2 product range.

- TFT-display 10.4", resolution SVGA (800 x 600 pixel)
- OP 340: Operation enabled by touch screen (analogous resistive) and membrane keys
 OP 341: Operation by membrane keys
- Can be located at a distance of up to 30 meters
- 16 switch inputs directly over the panel
- Additional customer-specific touch-sensitive key pad is optional (up to 64 keys, up to 31 light-emitting diodes (LEDs))
- Functionality can be regulated for any operating situation with the help of upgrade modules.

The operator panel OP 34x is directly controlled by the superimposed control system of the Kemro K2 product range.

Standard variants

Designation	Illustration	Description
OP 340 (-LD)/A-0000		 12 function keys with LEDs and plug-in strip
OP 340 (-LD)/A-0013		 8 function keys with LEDs and plug-in strip Assembly option for the USB module Assembly option for the RFID module
OP 340 (-LD)/A-0103		 8 function keys with LEDs and plug-in strip Assembly option for USB module Reserve slots for emergency switch and toggle switches

1



Branch-specific

2

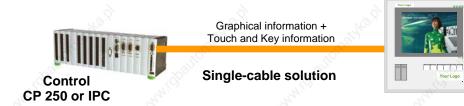
Designation	Illustration	Description
OP 341/C-1100		 63 keys with LEDs and plug-in strips Assembly option for USB module Assembly option for RFID module Reserve slots for emergency switch and toggle switches
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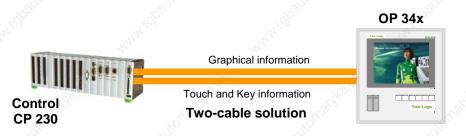
KEBA utomation by innovation.

System topology

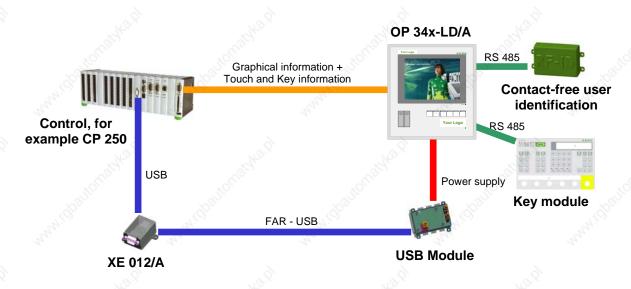
OP 34x



A single-cable solution is an option that can also be utilized along with the small control system CP 250 or the IPC control line. Both, the graphical information as well as backward channel data (touch and key information), are supplied through this cable.



Another option for verifying the compatibility to the already tried-and-tested controls is the twocable solution. In this situation, graphical data and backward channel data (touch and key information) are transferred through two separate cables.



Additional modules can be fixed directly on the panel if preferred, or they can also be positioned independent of the panel within a specified radial distance from the panel. The modules obtain power supply from the operator panel. The key module and the contact-free, user identification module are linked to the panel or the control via a serial interface.

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Your benefit

Modern touch screen technology

OP 340 uses a robust touch screen. The plant and machine users are thus able to carry out operations directly via the touch screen. The recommended visualization software, Kemro.view.standard, is designed particularly to fulfill the requirements of a touch operation.

Digital inputs

There are 16 input points which connect toggle switches, keys or other command devices directly to the panel. This way, an expensive cabling for the control system is avoided and commissioning time is reduced.

Additional advantages of USB

A suitable USB module can be mounted very easily on the present system. The USB module provides significant additional benefits to the end user. However, adding the USB module to a standard system without USB does not increase its cost significantly.

Simple cabling

A single cable connects the operator panel to the control. All the necessary graphical and backward channel information is transmitted by this cable. This facility minimizes cabling costs.

Suitable modularity for the plant

The productivity of the visualization system can be adjusted very easily to the respective function with the help of optional add-on modules. The serial interface complements the operator panel via a key module or a contact-free, user identification module.

Installation at variable ranges

Since the distance of the panel from the control implies a significant cost factor, two graded solutions were developed on the basis of the distance between the devices. Thus, for your desired application, you get a panel with optimal price/output ratio.

Different from competitors

For customer-specific solutions, the design, number, and configuration of keys can be installed individually to meet the respective operation requirements. Likewise, customer-specific key modules can also be installed for the operation.



Technical data

Data of devices

Display Resolution Interfaces Operation Function keys with plug-in strips:

Projection Digital inputs Remote installation 10.4" TFT, color (65535 colors) 800 x 600 pixel (SVGA) LVDS or DVI (Graphical) and RS485-A (Touch) Touch analog resistive (only OP 340) OP 340(-LD)/A-0000: 12 OP 340(-LD)/A-0013: 8 OP 340(-LD)/A-0103: 8 OP 341(-LD)/C-1100: 63 Kemro.view.standard (OP 340) / Kemro.view.basic (OP 341) 16 10 meters for LVDS 30 meters for DVI

Options

USB module RFID module Outlets for emergency switch and toggle switch Key module

Power supply

Nominal supply voltage: Range of supply voltage: 24 V DC 19.2 V to 30 V, in accordance with EN 61131-2

Environment conditions

Operation temperature: Storage temperature: Relative humidity: Resistance to vibrations: Shock-absorption capacity: +5 °C to +55 °C -25 °C to +70 °C 5 % to 95 % (uncondensed) In compliance with EN 61131 In compliance with EN 61131

Casing, measurements and weight

Front plate mass (B x H):

Installation depth: Material: Type of assembly: OP 340(-LD)/A – 0000: 320 mm x 260 mm OP 340(-LD)/A – 0013: 320 mm x 320 mm OP 340(-LD)/A – 0103: 320 mm x 340 mm OP 341/C-1100: 320 mm x 535 mm 52 mm Sheet metal casing

Protection class: Weight: Assembly on mounting plate in the switch cabinet using fastening bolts (M6 x 12 mm) IP65 front side, IP20 rear side

approx. 3 kg



Standards

The device corresponds to the following standards:

EMC:

EN 50081-2 EN 50082-2

EMC Noise emission, Industrial area EMC Resistance to jamming, Industrial area

Product standard for programmable controls: IEC 61131-1

IEC 61131-2

1131-2

General Hardware

Accessories

XW 040-040 XW 040-050 XW 040-100 XW 040-150 XW 040-200 XW 040-300 XW 041-040 XW 041-050 XW 041-100 XW 041-150 XW 041-150 XW 041-200 XW 041-300 XT 020/B

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Cable set 4 meters (consisting of graphical cable and USB cable) Cable set 5 meters (consisting of graphical cable and USB cable) Cable set 10 meters (consisting of graphical cable and USB cable) Cable set 15 meters (consisting of graphical cable and USB cable) Cable set 20 meters (consisting of graphical cable and USB cable) Cable set 30 meters (consisting of graphical cable and USB cable) Cable set 30 meters (consisting of graphical cable and USB cable) Cable set 30 meters (consisting of graphical cable and USB cable) Connecting cable CP <-> OP 4 meters Connecting cable CP <-> OP 5 meters Connecting cable CP <-> OP 10 meters Connecting cable CP <-> OP 20 meters Connecting cable CP <-> OP 30 meters Plug set for OP 300 line

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