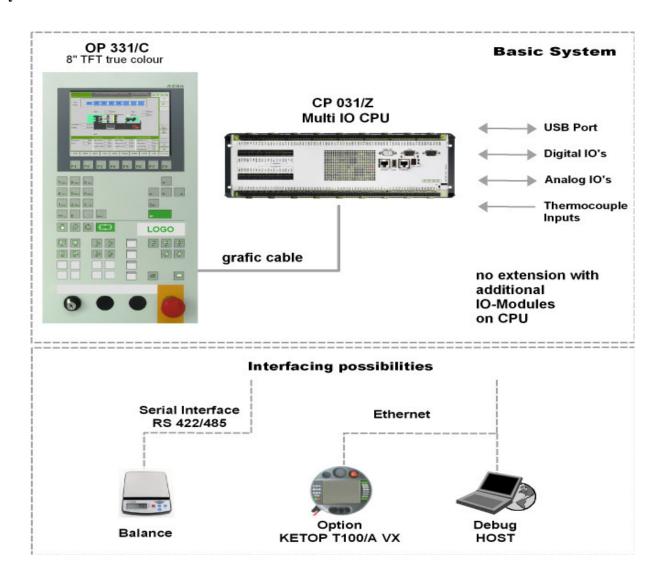
Product Specification

Technical specification of KePlast i1070-0000-00

Keplast i1070 is the lower end control system for usage in <u>IMM's</u>.

The injection process can be run with full closed loop control and a cycle time of ≥ 2 ms, depending on the application size.

System Hardware



KePlast i1070 system scheme

Keplast i1070 is equipped with a high-resolution TFT-colour display 8,4", SVGA (800x600) and is designed as an operator interface based on IEC language. The functionality for displaying symbolic language is included.

Processing unit

The processing unit CP 031/Z is designed with a Motorola Power PC 400 MHz. The process interface on board of the processing unit is defined as follows:

- 5 analog inputs, 14 bit, therof
 - 2 differential inputs 0-10V for pressure transducer
 - 3 potentiometer inputs 0-10V for position encoder (single ended, reference voltage 10V)
- 5 analog outputs +/-10V with 12 bit resolution,
 alternatively 3 ports useable as 0 1 A output for direct drive of valves
- 7 thermocouple inputs (J-type, K-type)
- 32 digital inputs including 2 counter inputs for screw speed measurement
- 40 digital outputs 2 A
- 256 MB RAM
- Interface to the display panel
- 1 RS 485 interface to the switch panel
- 1 Ethernet interface onboard
- 1 USB interface for printer, USB memory device and PC-keyboard
- 1 Flashcard slot for memory card, required: KEBA Type 68916..
 (compact flash card not included in system price)
- 1 Switch panel OP 331/C including 8,4" display and keyboard for manual mode operation (customized design available for an extra charge, maximum 64 membrane keys, 32 LED's and 5 rotary switches with LED's for status display)

Standard hardware configuration:

| Pcs. | Product Name | Description of product |
|------|--------------|---|
| 1 | CP 031/Z | CPU 400 Mhz with integrated IO-interface |
| 1 | OP 331/C | Operating panel KePlast i1070 Series - Display: 8,4" TFT color, 65535 colors - Resolution: 800x600 Pixel (SVGA) - Interfaces: LVDS (graphic) and RS-485 (input) - 58 Membrane keypad with tactile feedback, thereof: 10 with red LED 12 with labeling strips - Recesses for emergency-off and 3 toggle switches - 8 digital inputs for connection to rotary switches and push buttons Configuration: Kemro.view.basic - KEBA standard version - excl. connector set for CP 031/Z (XT 390/A) |
| 1 | XW 041-050 | Cable for OP3xx-Panels - 5m - 1 cable for graphic and RS 485 |
| 1 | CF Card | Kemro K2 CF card part no. 68916.(Excl. From package.) |

System Software

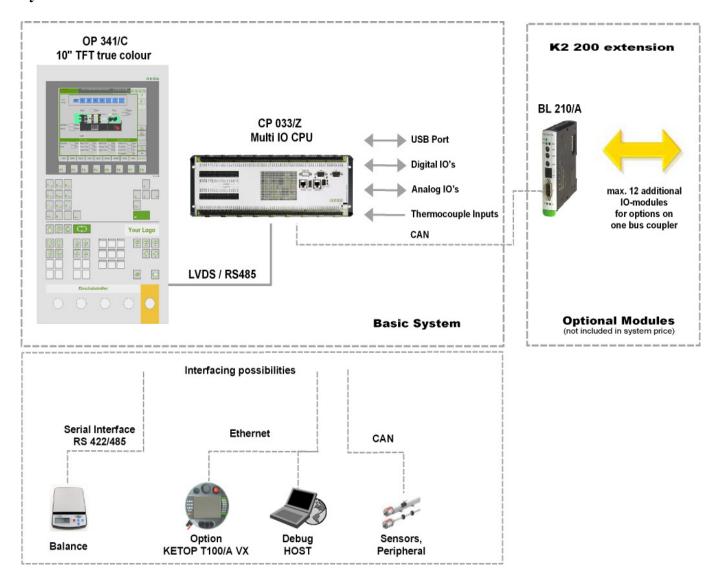
The system software supplied with Keplast i1070 will include:

- Firmware (real time operating system, driver software for hardware and communication interfaces, IEC runtime system) for control system Keplast i1070.
- Application framework (basic application library) for standard IMM
- Runtime system for Keplast i1070 human machine interface (HMI)
- Integrated services:
 - Print-service
 - Basic application for alarm visualization
 - Process Data Protocol
 - Inject Graph
 - IO Monitor
 - Statusreport
 - User management

Technical specification of KePlast i1075-0300-00 extended

Keplast i1075 can be extended with use of CP 033/Z, which includes CAN Port and additional IO's. The injection process can be run with full closed loop control and a cycle time of \geq 2ms, depending on the application size.

System Hardware



KePlast i1075 extended system scheme

KePlast i1075 is equipped with a high-resolution TFT-colour display 10,4", SVGA (800x600) and is designed as an operator interface based on IEC language. The functionality for displaying symbolic language is included.

Processing unit

The processing unit CP 033/Z is designed with a Motorola Power PC 400 MHz. The process interface onboard of the processing unit is defined as follows:

- 8 analog inputs with 14 bit resolution, thereof
 - 4 differential inputs 0-10V for pressure transducer
 - 4 potentiometer inputs 0-10V for position encoder (single ended, reference voltage 10V)
- 6 analog outputs +/-10V with 12 bit resolution
 thereof 4 ports alternatively useable as 0 1 A output for direct drive of valves
- 8 thermocouple inputs (J-type, K-type)
- Interface to connect to sensor for external compensation of cold junction (TE 220/A)
- 48 digital inputs including 2 counter inputs for screw speed measurement
- 56 digital outputs 2 A
- 256 MB RAM
- Interface to the display panel
- 1 RS 485 interface to the switch panel and touch
- 1 Serial interface (RS-232-C or RS-485-A)
- 1 CAN-Open field bus interface for additional IO extension or transducers (max. 1Mbit/s)
- 1 Ethernet interface onboard
- 1 USB interface for printer, USB memory device and PC-keyboard
- 1 Flashcard slot for memory card, required: KEBA Type 68916.
 (compact flash card not included in system price)

Standard hardware configuration:

| Standard hardware configuration. | | | |
|----------------------------------|---------------|---|--|
| Pcs. | Product Name | Description of product | |
| 1 | CP 033/Z | CPU 400 Mhz with integrated IO-interface | |
| 1 | OP 341/C-1100 | Operating panel for KePlast i1075 - Display: 10,4"" TFT color, 65535 colors - Resolution: 800x600 Pixel (SVGA) - Interfaces: LVDS (graphic) and RS-485 (input) - Membrane keypad with tactile feedback -63 keys incl. 15 keys with red LED incl. 17 keys labelling strips - Recesses for emergency-off and 4 toggle switches - 16 digital inputs for connection to rotary switches - Configuration: Kemro.view.basic - KEBA standard version - excl. connector XT 395/A | |
| 1 | XW 041-050 | Cable for OP3xx-Panels - 5m - 1 cable for graphic and RS 485 | |

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Extension of standard system

The additional extension of the system mentioned above is made by modules from our product line K2-200.

System Software

The system software supplied with Keplast i1075 extended will include:

- Firmware (real time operating system, driver software for hardware and communication interfaces, IEC runtime system) for control system Keplast i1075.
- Application framework (basic application library) for standard IMM
- Runtime system for Keplast i1075 human machine interface (HMI)
- Integrated services:
 - Print-service
 - Basic application for alarm visualization
 - Process Data Protocol
 - Inject Graph
 - IO Monitor
 - Statusreport
 - User management