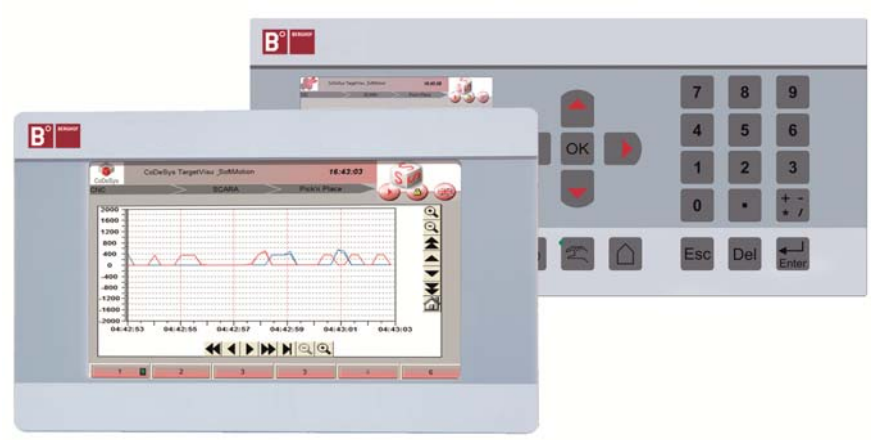
DC1100 Basic Plus
Compact CODESYS PLC controller

The new dialog controller is a CoDeSys PLC controller with an integrated display. Besides 'Operate and Observe', the dialog controller also assumes control tasks and communicates with the CANbus via Ethernet and on serial interfaces. The Basic Plus was optimized for distributed assembly and starts with a 3.5" display. This model is especially conceived for the budget line of an established machine series, for example, or for other cost-sensitive applications. It possesses all the basic interfaces of the dialog controller family, but is also designed for connecting EtherCAT components. Optional communication protocols are equally available. PROFINET device for industrial plants or the BACnet controller function for building automation.



- → 3,5“ or 7“ colour display
- → Ethernet
- → EtherCAT
- → USB
- → SD Card
- → CANbus
- → RS232
- → RS485
- → optional PROFINET / BACnet

Easy front installation	Today machines are being built to be increasingly compact. As many components as possible are removed from the switching cabinet and installed locally. The mechanics of the Basic Plus are designed precisely for this application. With its lateral tension springs the 3,5” device can be inserted from the front into the installation aperture (snap in) and is immediately fixed in place by mechanical means. The 7“ Dialog Controller is mounted with screws
Second Ethernet interface	The second Ethernet interface of the Mini DC is designed to be a convenient connection for EtherCAT components. Hence state-of-the-art I/O and the latest-generation drive technology are available for connection. This is complemented by the established CAN and serial interfaces. This makes it possible to connect affordable or tried and tested components.
Affordable	The integrated design of the Basic Plus was designed for optimally-priced connection technology. Equally, such options as onboard I/O extension cards were foregone in order to be able to offer the most affordable yet highly functional device possible. Maximum functioning for cost-sensitive applications.

BERGHOF

Module data	DC1103	DC1105
Display	**QVGA**	**VGA**
Diagonal	3,5“	7“ Wide
Art. No.	270005300	-
Resolution	320 x 240 pixels	800 x 480 pixels
Colours	TFT: 256 (8 bits / pixels)	TFT: 65536 (16 bits / pixels)
CPU, user memory		
CPU	266 MHz CPU	400 MHz CPU
Programming memory (Flash)	16 MB / 8 MB for application	32 MB Onboard / 24 MB for appl.
Program-/Data storage device (RAM)	64 MB, 32 MB for application	128 MB Onboard / 96 MB for appl.
Retain memory	16 kB	
Development environment	CODESYS PLC-programming tool V 2.3	
Inout	Touch operation or keyboard matrix	
Sizes and weights		
Dimensions (WxH [mm])	Fitting dimensions 232x105 Front plate 3mm	Fitting dimensions 215x156 Front plate: 3mm
Weight	700 g	
Operating conditions		
Ambient temperature	0 °C to 55 °C (if the installation instructions are observed)	
Relative air humidity	Max. 85 %, non-condensing (monochrome max. 75 %)	
Transport, storage		
Ambient temperature	-20 °C to +70 °C	
Relative air humidity	Max. 85 %, non-condensing (monochrome max. 75 %)	
EMV, protection type		
Electromagnetic interference	EN 61000-6-4, industrial sector	
Insusceptibility to interference	EN 61000-6-2, industrial sector	
Protection type	IP20 (front IP65)	
Energy supply (24 V power supply unit)		
Supply voltage	+24 VDC (-15% / +20%) SELV max. residual ripple 5%	
Power consumption	typ. 1.0 A, max. 2.0 A at +24 VDC	
Polarity reversal protection	Yes	
Interface		
Ethernet	2 x 10/100 base T on RJ45 plug-in connector	
USB	1 x Host USB rev. 1.1 (rear)	
CAN-Bus	1x standard CAN ISO 11898 potential isolated	
Serial	1x RS232 , 1x RS485	
E-bus	I/O extension bus, max. 7 subscribers (alternative to 2nd Ethernet interface)	
Other functions		
Realtime clock	Yes, battery-buffered	
SD card	Optional	

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