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System characteristics



Robust design for use in rough industrial environments

A hand-held unit like the Mobile Panel has to meet higher demands than a mounted device. For this reason, the Mobile Panel has a particularly robust design. The double-walled housing absorbs hard impacts. Control elements such as key switches and E-stop are flush-mounted. The rounded housing form dampens external impacts.

In addition, the electronics are positioned to absorb external shocks and jolts as effectively as possible. The housing, cables, and connectors are all protected against dust and sprayed water.

Operating and monitoring

On the Mobile Panel, the limited space available for display and keys is used optimally. B&R decided on a combination of function keys, numeric keys and touch screen. Frequently used functions can be assigned to pre-programmed keys, and functions that depend on the state of the machine are assigned to touch buttons. A digital pen for touch operation can be found on the back of the device.



Wide variety with MP40/50

Ergonomic, light and extremely impact-resistant. These qualities of the six new handheld operating devices in the MP40 and MP50 lines enable safe and simple onsite operation and monitoring with a maximum range of functions.

The main differences within the various series include display size and the types of operating elements. Depending on the application, operating elements might include a joystick, handwheel, override potentiometer, key switch, or illuminated button. The MP40 and MP50 Mobile Panel devices are available with a 3.8" QVGA LCD monochromedisplay and a 6.5" VGA TFT color display.

For safety, an E-stop button is integrated via an additional connection box, which enables connecting and disconnecting during operation without loss of the safety function. Two integrated three-step enable switches, ergonomically optimal for left or right-handed operators, provide the highest degree of safety even during setup.



Performance principle

The processors are based on an Intel PXA 270 CPU with 128 MB flash memory and 256 MB DRAM. The Windows CE operating system offers a flexible foundation for a wide range of applications types, such as mobile thin clients, direct connections to the controller and open SCADA systems. The double-walled panels with IP65 protection have integrated interfaces such as USB and Ethernet 10/100.

The new series fits seamlessly into the B&R system environment. The panels are configured easily using Visual Components. The X20 CPU provides a compact and scalable control platform that unites all functions.



A firm grasp on operation with MP100/200

For a Mobile Panel, operating comfort is mainly defined through ergonomics. Many well thought out details guarantee that the Mobile Panel is easy to handle. Having the cable connected in the middle keeps the Mobile Panel balanced and prevents one side from being dragged down. The handle can also be adjusted without tools, allowing the Mobile Panel to be used optimally by both right- and left-handed operators.

The Mobile Panel surface is also important for operating comfort. The device has a soft-touch coating, which results in optimal haptic qualities. The soft-touch coating is also extremely resistant to impacts, acids, alcohol and cleaning agents. The handle was designed so that the Mobile Panel can stand steadily on a table and be operated securely.

Communication

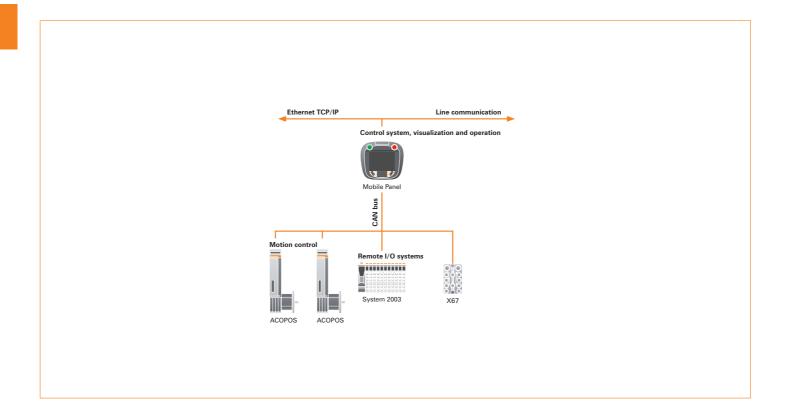
The Mobile Panel can be seamlessly integrated in the automation solution. An Ethernet connection is available for this purpose. For devices with an integrated controller, networking takes place via CAN bus. Thought was also given to loading programs. A separate serial connection is available so that program changes can be downloaded without opening the housing. All communication channels are transferred to the switching cabinet using a hybrid cable.

All software is stored on a CompactFlash card which is found behind a cover on the back of the Mobile Panel. In addition to the CompactFlash slot, a USB interface can be used to transfer data using a USB flash drive.

Typical topologies

Mobile control and visualization

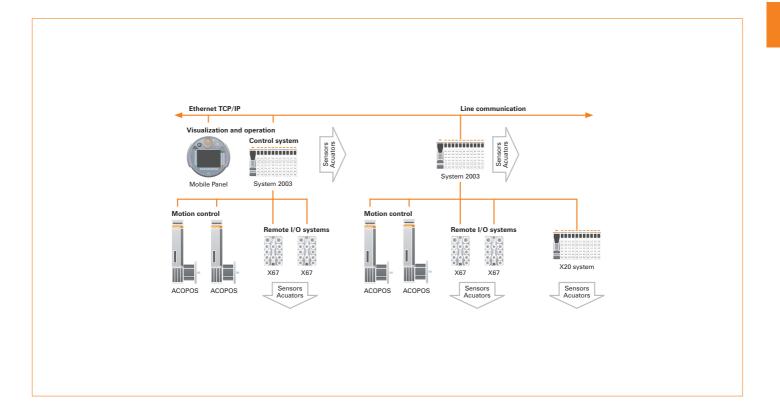
The control program and the visualization run on the Mobile Panel 200. I/O peripherals and drives are connected via CAN bus. Communication with higher-level systems is handled by Ethernet.



Control system	Mobile Panel: More than just mobile operation and monitoring	⊞ 873
Motion control	ACOPOS: Intelligent servo drives	₾ 1251
	ACOPOSmulti: Modular drive system	∄ 1321
Remote I/O systems	X20 System: Slice-based I/O and control system	⊞ 37
	X67 System: Remote I/O with IP67 protection	⊞ 419

Mobile operation and monitoring

The control programs are distributed over several PLC stations. Fieldbus systems are used to connect I/O systems and drives to the PLCs. Machine operation and visualization take place on a central MobilePanel, which uses Ethernet to communicate with the controllers.

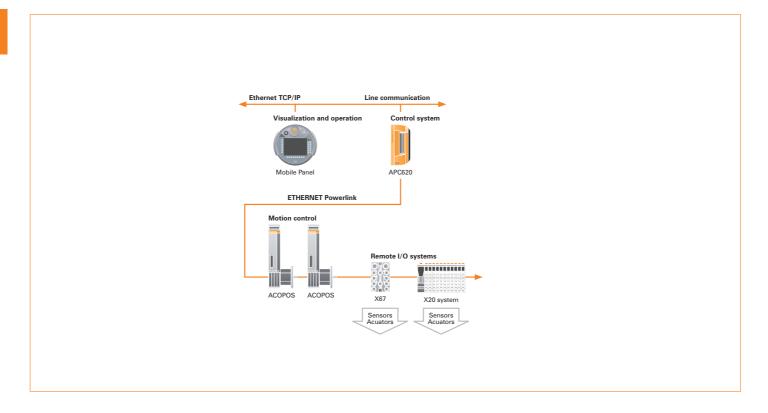


Control system	X20 System: Slice-based I/O and control system	⊞ 37
Visualization and operation	Mobile Panel: More than just operation and monitoring	⊞ 873
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Typical topologies

The mobile thin client

The Mobile Panel with the Windows CE operating system is connected as a thin client to an APC620 or APC810 with Windows XP Professional/Embedded. The control program runs on the industrial PC, and I/O peripherals and drives are connected to the industrial PC via a fieldbus.



Visualization and operation	Mobile Panel: More than just operation and monitoring	⊞ 873
Motion control	ACOPOS: Intelligent servo drives	∄ 1251
	ACOPOSmulti: Modular drive system	∄ 1321
Remote I/O systems	X20 System: Slice-based I/O and control system	∄ 37
	X67 System: Remote I/O with IP67 protection	∄ 419
Industrial PC	Automation PC APC620: The modular, fan-free industrial PC	∄ 911
	Automation PC APC810: Highest-level performance with Intel® Core™ 2 Duo processors	∄ 945
	Panel PC: Operation and PC integrated	₾ 985

Product overview

MP100/200 device configuration

	Model number	Name	Number / Combinations	
Operating unit	4MP181.0843-03	Mobile Panel MP181; 8.4" VGA color	Select 1	₿ 886
, ,	4MP251.0571-12	Mobile Panel MP251; 5.7" QVGA color		⊞ 887
	4MP281.0571-12	Mobile Panel MP281; 5.7" QVGA color		⊞ 887
	4MP281.0843-13	Mobile Panel MP281; 8.4" VGA color		⊞ 888
	5MP181.0843-07	Mobile Panel MP181 BIOS; 8.4" VGA color		⊞ 889
Handle	4MPHDL.0000-00	Mobile Panel handle	Select 1	∄ 884
Cables	5CAMPH.0018-10	MP100/200 attatchment cable PP 1.8 m	Select 1	∄ 904
	5CAMPH.0050-10	MP100/200 attatchment cable PP 5 m		∄ 904
	5CAMPH.0100-10	MP100/200 attatchment cable PP 10 m		∄ 904
	5CAMPH.0150-10	MP100/200 attatchment cable PP 15 m		∄ 904
	5CAMPH.0200-10	MP100/200 attatchment cable PP 20 m		∄ 904
Switching cabinet cable	5CAMPC.0020-10	MP switching cabinet cable CO PP 2 m (Ethernet crossover)	Select 1	∄ 905
	5CAMPC.0020-11	MP switching cabinet cable ST PP 2 m (Ethernet straight)		⊞ 905
Wall mount	4MPBRA.0000-00	Mobile Panel wall mount 100/200	Option	∄ 903
Connection box	4MPCBX.0000-00	MP connection box	Option	∄ 902
	4MPCBX.0001-00	MP connection box, small	Option	⊞ 902
Box cable	5CAMPB.0100-10	MP box cable PP 10 m (Ethernet crossover)	Option	⊞ 906

MP40/50 device configuration

	Model number	Name	Number / Combinations	
Operating unit	5MP040.0381-01	MP40 LCD M QVGA 3.8" F SB	Select 1	₿ 890
	5MP040.0381-02	MP40 LCD M QVGA 3.8" F SB KS HW		⊞ 892
	5MP050.0653-01	MP50 TFT C VGA 6.5" FT SB PB HW		∄ 894
	5MP050.0653-02	MP50 TFT C VGA 6.5" FT SB KS JS		⊞ 896
	5MP050.0653-03	MP50 TFT C VGA 6.5" FT SB OP HW		⊞ 898
	5MP050.0653-04	MP50 TFT C VGA 6.5" FT SB KS HW		⊞ 900
Cables	5CAMPH.0018-30	MP40/50 attatchment cable PP 1.8 m	Select 1	⊞ 904
	5CAMPH.0050-30	MP40/50 attatchment cable PP 5 m		⊞ 904
	5CAMPH.0100-30	MP40/50 attatchment cable PP 10 m		⊞ 904
	5CAMPH.0150-30	MP40/50 attatchment cable PP 15 m		⊞ 904
	5CAMPH.0200-30	MP40/50 attatchment cable PP 20 m		⊞ 904
Switching cabinet cable	5CAMPC.0020-10	MP switching cabinet cable CO PP 2 m (Ethernet crossover)	Select 1	⊞ 905
	5CAMPC.0020-11	MP switching cabinet cable ST PP 2 m (Ethernet straight)		⊞ 905
Wall mount	4MPBRA.0000-01	Mobile Panel wall mount 40/50	Option	⊞ 903
Connection box	4MPCBX.0000-00	MP connection box	Option	⊞ 902
	4MPCBX.0001-00	MP connection box, small	Option	⊞ 902
Box cable	5CAMPB.0100-10	MP box cable PP 10 m (Ethernet crossover)	Option	₿ 906

Operating units

















Model number	Short description	
4MP181.0843-03	Mobile Panel MP181 embedded operating unit	₿ 886
	8.4" VGA color TFT display with touch screen (resistive); 19 system keys; key switch and E-stop. 64 MB SDRAM; Compact Flash slot (type I); ETH 10/100; USB 1.1;	
	24 VDC.	
1MP251.0571-12	Mobile Panel MP251 embedded operating unit	₿ 887
	5.7" QVGA color LCD; 14 soft keys and 19 system keys; key switch and E-stop. 64 MB SDRAM; 256 kB SRAM; CompactFlash slot (type I);	
	ETH 10/100; CAN; USB 1.1; battery; 24 VDC.	
MP281.0571-12	Mobile Panel MP281 embedded operating unit	₿ 887
	5.7" QVGA color LCD with touch screen (resistive); 14 soft keys and 19 system keys; key switch and E-stop. 64 MB SDRAM; 256 kB SRAM;	
	CompactFlash slot (type I); ETH 10/100; CAN; USB 1.1; battery; 24 VDC.	
IMP281.0843-13	Mobile Panel MP281 embedded operating unit	₿ 888
	8.4" VGA color TFT display with touch screen (resistive); 19 system keys; key switch and E-stop. 64 MB SDRAM; 256 kB SRAM;	
	CompactFlash slot (type I); ETH 10/100; CAN; USB 1.1; battery; 24 VDC.	
MP181.0843-07	Mobile Panel MP181 BIOS operating unit	₿ 889
	8.4" VGA color TFT display with touch screen (resistive); 19 system keys; key switch and E-stop. 128 MB SDRAM;	
	Compact Flash slot (type I); ETH 10/100; USB 1.1; battery; 24 VDC.	
5MP040.0381-01	Mobile Panel MP40, 3.8" QVGA LCD monochrome display,	₿ 890
	Intel PXA 270 processor, 256 MB DRAM, 128 MB flash; ETH 10/100, USB 1.1; 51 system keys, stop button,	
	2 integrated 3-step enable switches, handle.	
MP040.0381-02	Mobile Panel MP40, 3.8" QVGA LCD monochrome display,	₿ 892
	Intel PXA 270 processor, 256 MB DRAM, 128 MB flash; ETH 10/100, USB 1.1; 51 system keys, stop button, handwheel, key switch;	
	2 integrated 3-step enable switches, handle.	
MP050.0653-01	Mobile Panel MP50, 6.5" VGA TFT color display with touch screen (analog resistive), Intel PXA 270 processor, 256 MB DRAM, 128 MB flash; ETH 10/100, USB 1.1;	₿ 894
	31 system keys, stop button, handwheel, push button; 2 integrated 3-step enable switches, handle.	
MP050.0653-02	Mobile Panel MP50, 6.5" VGA TFT color display with touch screen (analog resistive), Intel PXA 270 processor, 256 MB DRAM, 128 MB flash; ETH 10/100, USB 1.1;	₿ 896
	31 system keys, stop button, joystick, key switch; 2 integrated 3-step enable switches, handle.	
MP050.0653-03	Mobile Panel MP50, 6.5" VGA TFT color display with touch screen (analog resistive), Intel PXA 270 processor, 256 MB DRAM, 128 MB flash; ETH 10/100, USB 1.1;	₿ 898
	31 system keys, stop button, handwheel, override potentiometer; 2 integrated 3-step enable switches, handle.	
5MP050.0653-04	Mobile Panel MP50, 6.5" VGA TFT color display with touch screen (analog resistive), Intel PXA 270 processor, 256 MB DRAM, 128 MB flash; ETH 10/100, USB 1.1;	₿ 900
	31 system keys, stop button, handwheel, key switch; 2 integrated 3-step enable switches, handle.	

Product overview

Handle



Model number	Short description	
4MPHDL.0000-00	Mobile Panel 100/200 handle	₾ 903
	With integrated 3-step enable switch	

Cables







Model number	Short description	
5CAMPH.0018-10	MP100/200 attatchment cable PP 1.8 m	⊞ 904
5CAMPH.0050-10	MP100/200 attatchment cable PP 5 m	₿ 904
5CAMPH.0100-10	MP100/200 attatchment cable PP 10 m	⊞ 904
5CAMPH.0150-10	MP100/200 attatchment cable PP 15 m	⊞ 904
5CAMPH.0200-10	MP100/200 attatchment cable PP 20 m	⊞ 904
5CAMPC.0020-10	MP switching cabinet cable CO PP 2 m (Ethernet crossover)	⊞ 905
5CAMPC.0020-11	MP switching cabinet cable ST PP 2 m (Ethernet straight)	⊞ 905
5CAMPH.0018-30	MP40/50 attatchment cable PP 1.8 m	⊞ 904
5CAMPH.0050-30	MP40/50 attatchment cable PP 5 m	⊞ 904
5CAMPH.0100-30	MP40/50 attatchment cable PP 10 m	⊞ 904
5CAMPH.0150-30	MP40/50 attatchment cable PP 15 m	⊞ 904
5CAMPH.0200-30	MP40/50 attatchment cable PP 20 m	⊞ 904

Wall mount





Model number	Short description	
4MPBRA.0000-00	Mobile Panel wall mount MP100/200	⊞ 903
4MPBRA.0000-01	Mobile Panel wall mount MP40/50	⊞ 903

Connection box





Model number	Short description	
4MPCBX.0000-00	Mobile Panel connection box	₿ 902
4MPCBX.0001-00	Mobile Panel connection box, small	∄ 902

Box cable



Model number	Short description	
5CAMPB.0100-10	Mobile Panel box cable PP 10 m (Ethernet crossover)	₿ 906

Mobile Panel MP181 embedded 8.4" TFT color Touch



0 266 MHz, MMX compatible memory (reserved from the main memory) el CompactFlash cards (behind the cover) s each (back side) -03 30 pixels
e I CompactFlash cards (behind the cover) s each (back side) -03 80 pixels
e I CompactFlash cards (behind the cover) s each (back side) -03 80 pixels
s each (back side) -03 20 pixels
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pair (10 BaseT / 100 BaseT)
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Required accessories		
5CAMPH.0018-10	MP100/200 attatchment cable PP 1.8 m	⊞ 904
5CAMPH.0050-10	MP100/200 attatchment cable PP 5 m	⊞ 904
5CAMPH.0100-10	MP100/200 attatchment cable PP 10 m	⊞ 904
5CAMPH.0150-10	MP100/200 attatchment cable PP 15 m	⊞ 904
5CAMPH.0200-10	MP100/200 attatchment cable PP 20 m	⊞ 904
5CAMPC.0020-10	MP switching cabinet cable CO PP 2 m (Ethernet crossover)	⊞ 905
5CAMPC.0020-11	MP switching cabinet cable ST PP 2 m (Ethernet straight)	⊞ 905
	CompactFlash cards	∄ 1126

Mobile Panel MP251/281 embedded 5.7" LCD color (touch screen)



Controller		4MP251.0571-12	4MP281.0571-12
Processor		Geode SC2200 266 MHz, MMX compatible	Geode SC2200 266 MHz, MMX compatible
Main memory		64 MB DRAM	64 MB DRAM
Graphics memory		4 MB shared memory (reserved from the main	4 MB shared memory (reserved from the main
		memory)	memory)
SRAM		256 KB onboard, battery-buffered	256 KB onboard, battery-buffered
CompactFlash slot		1 slot for Type I CompactFlash cards (behind the cover)	1 slot for Type I CompactFlash cards (behind the cover
Battery		Lithium, 950 mAh	Lithium, 950 mAh
Mode/Node switches 1)		2, 16 positions each (back side)	2, 16 positions each (back side)
) Accessible by removing the han	dle		
Display		4MP251.0571-12	4MP281.0571-12
Type		LCD color	LCD color
Colors		256	256
Resolution		QVGA, 320 x 240 pixels	QVGA, 320 x 240 pixels
Diagonal		5.7"	5.7"
Brightness		150 cd/m ²	150 cd/m ²
Half-brightness time		50,000 h	50,000 h
Touch screen		-	Analog resistive
Keys		4MP251.0571-12	4MP281.0571-12
Soft keys		14 (6 with LED)	14 (6 with LED)
System keys		Number block	Number block
Oyotom koyo		4 system keys	4 system keys
E-stop		Yes (2 N.C., right position)	Yes (2 N.C., right position)
Key switch 1)		Yes (1 normally open, momentary, left position)	Yes (1 normally open, momentary, left position)
Connection via Mobile Panel cab	ole.	res (1 normally open, momentary, left position)	res (Thornally open, momentary, lere position)
Interfaces	no	4MP251.0571-12	4MP281.0571-12
Serial		RS232 (RxD and TxD, not modem-capable)	RS232 (RxD and TxD, not modem-capable)
USB		1x USB 1.1, connection type A (behind the cover)	1x USB 1.1, connection type A (behind the cover)
Ethernet 1)		RJ45 twisted pair (10 BaseT / 100 BaseT)	RJ45 twisted pair (10 BaseT / 100 BaseT)
CAN 1)		Yes, electrically isolated	Yes, electrically isolated
1) Connection via Mobile Panel cab		res, electrically isolated	res, electrically isolated
24 VDC supply	ne	4MP251.0571-12	4MP281.0571-12
		24 VDC ±25%, electrically isolated	24 VDC ±25%, electrically isolated
Input voltage 1)		24 VDC ±25%, electrically isolated	24 VDC ±25%, electrically isolated
1) Connection via Mobile Panel cab	ne	4MP251.0571-12	4MP281.0571-12
Environmental conditions			
Operational temperature		0°C to +45°C	0°C to +45°C
Storage temperature		0°C to +45°C -20°C to +60°C	0°C to +45°C -20°C to +60°C
Storage temperature Relative humidity - operation	n	0°C to +45°C -20°C to +60°C 45 - 85%, non-condensing	0°C to +45°C -20°C to +60°C 45 - 85%, non-condensing
Storage temperature Relative humidity - operation Relative humidity - storage	n	0°C to +45°C -20°C to +60°C 45 - 85%, non-condensing 8 - 85%, non-condensing	0°C to +45°C -20°C to +60°C 45 - 85%, non-condensing 8 - 85%, non-condensing
Storage temperature Relative humidity - operatio Relative humidity - storage Mechanics	n	0°C to +45°C -20°C to +60°C 45 - 85%, non-condensing 8 - 85%, non-condensing 4MP251.0571-12	0°C to +45°C -20°C to +60°C 45 - 85%, non-condensing 8 - 85%, non-condensing 4MP281.0571-12
Storage temperature Relative humidity - operatio Relative humidity - storage Mechanics Protection type		0°C to +45°C -20°C to +60°C 45 - 85%, non-condensing 8 - 85%, non-condensing	0°C to +45°C -20°C to +60°C 45 - 85%, non-condensing 8 - 85%, non-condensing
Storage temperature Relative humidity - operatio Relative humidity - storage Mechanics Protection type Outer dimensions (W x H x		0°C to +45°C -20°C to +60°C 45 -85%, non-condensing 8 - 85%, non-condensing 4MP251.0571-12 IP54 (with cable and handle)	0°C to +45°C -20°C to +60°C 45 -85%, non-condensing 8 -85%, non-condensing 4MP281.0571-12 IP54 (with cable and handle)
Storage temperature Relative humidity - operatio Relative humidity - storage Mechanics Protection type Outer dimensions (W x H x Without handle		0°C to +45°C -20°C to +60°C 45 - 85%, non-condensing 8 - 85%, non-condensing 4MP251.0571-12 IP54 (with cable and handle)	0°C to +45°C -20°C to +60°C 45 -85%, non-condensing 8 - 85%, non-condensing 4MP281.0571-12 IP54 (with cable and handle) 306.6 × 76 × 270.6
Storage temperature Relative humidity - operatio Relative humidity - storage Mechanics Protection type Outer dimensions (W x H x Without handle With handle		0°C to +45°C -20°C to +60°C 45 - 85%, non-condensing 8 - 85%, non-condensing 4MP251.0571-12 IP54 (with cable and handle) 306.6 x 76 x 270.6 306.6 x 175.2 x 270.6	0°C to +45°C -20°C to +60°C 45 -85%, non-condensing 8 - 85%, non-condensing 4MP281.0571-12 IP54 (with cable and handle) 306.6 x 76 x 270.6 306.6 x 175.2 x 270.6
Storage temperature Relative humidity - operatio Relative humidity - storage Mechanics Protection type Outer dimensions (W x H x Without handle With handle Weight		0°C to +45°C -20°C to +60°C 45 -85%, non-condensing 8 - 85%, non-condensing 4MP251.0571-12 IP54 (with cable and handle) 306.6 x 76 x 270.6 306.6 x 175.2 x 270.6 Approx. 1.65 kg	0°C to +45°C -20°C to +60°C 45 - 85%, non-condensing 8 - 85%, non-condensing 4MP281.0571-12 IP54 (with cable and handle) 306.6 x 76 x 270.6 306.6 x 175.2 x 270.6 Approx. 1.65 kg
Storage temperature Relative humidity - operatio Relative humidity - storage Mechanics Protection type Outer dimensions (W x H x Without handle With handle		0°C to +45°C -20°C to +60°C 45 - 85%, non-condensing 8 - 85%, non-condensing 4MP251.0571-12 IP54 (with cable and handle) 306.6 x 76 x 270.6 306.6 x 175.2 x 270.6	0°C to +45°C -20°C to +60°C 45 -85%, non-condensing 8 - 85%, non-condensing 4MP281.0571-12 IP54 (with cable and handle) 306.6 x 76 x 270.6 306.6 x 175.2 x 270.6
Storage temperature Relative humidity - operatio Relative humidity - storage Mechanics Protection type Outer dimensions (W x H x Without handle With handle Weight		0°C to +45°C -20°C to +60°C 45 -85%, non-condensing 8 - 85%, non-condensing 4MP251.0571-12 IP54 (with cable and handle) 306.6 x 76 x 270.6 306.6 x 175.2 x 270.6 Approx. 1.65 kg	0°C to +45°C -20°C to +60°C 45 - 85%, non-condensing 8 - 85%, non-condensing 4MP281.0571-12 IP54 (with cable and handle) 306.6 x 76 x 270.6 306.6 x 175.2 x 270.6 Approx. 1.65 kg
Storage temperature Relative humidity - operatio Relative humidity - storage Mechanics Protection type Outer dimensions (W x H x Without handle With handle Weight Drop height	D [mm])	0°C to +45°C -20°C to +60°C 45 -85%, non-condensing 8 - 85%, non-condensing 4MP251.0571-12 IP54 (with cable and handle) 306.6 x 76 x 270.6 306.6 x 175.2 x 270.6 Approx. 1.65 kg 1 m to industrial floor	0°C to +45°C -20°C to +60°C 45 - 85%, non-condensing 8 - 85%, non-condensing 4MP281.0571-12 IP54 (with cable and handle) 306.6 x 76 x 270.6 306.6 x 175.2 x 270.6 Approx. 1.65 kg
Storage temperature Relative humidity - operatio Relative humidity - storage Mechanics Protection type Outer dimensions (W x H x Without handle With handle Weight Drop height Required accessories		0°C to +45°C -20°C to +60°C 45 -85%, non-condensing 8 - 85%, non-condensing 4MP251.0571-12 IP54 (with cable and handle) 306.6 x 76 x 270.6 306.6 x 175.2 x 270.6 Approx. 1.65 kg 1 m to industrial floor	0°C to +45°C -20°C to +60°C 45 -85%, non-condensing 8 - 85%, non-condensing HP281.0571-12 IP54 (with cable and handle) 306.6 x 76 x 270.6 306.6 x 175.2 x 270.6 Approx. 1.65 kg 1 m to industrial floor
Storage temperature Relative humidity - operatio Relative humidity - storage Mechanics Protection type Outer dimensions (W x H x Without handle Weight Drop height Required accessories 5CAMPH.0018-10 5CAMPH.0050-10	D [mm]) MP100/200 attatchment cal MP100/200 attatchment cal	0°C to +45°C -20°C to +60°C 45 - 85%, non-condensing 8 - 85%, non-condensing 4MP251.0571-12 IP54 (with cable and handle) 306.6 x 76 x 270.6 306.6 x 175.2 x 270.6 Approx. 1.65 kg 1 m to industrial floor	0°C to +45°C -20°C to +60°C 45 -85%, non-condensing 8 - 85%, non-condensing 4MP281.0571-12 IP54 (with cable and handle) 306.6 x 76 x 270.6 306.6 x 175.2 x 270.6 Approx. 1.65 kg 1 m to industrial floor
Storage temperature Relative humidity - operatio Relative humidity - storage Mechanics Protection type Outer dimensions (W x H x Without handle With handle Weight Drop height Required accessories 5CAMPH.0018-10	D [mm]) MP100/200 attatchment cal	0°C to +45°C -20°C to +60°C 45 - 85%, non-condensing 8 - 85%, non-condensing 4MP251.0571-12 IP54 (with cable and handle) 306.6 x 76 x 270.6 306.6 x 175.2 x 270.6 Approx. 1.65 kg 1 m to industrial floor	0°C to +45°C -20°C to +60°C 45 - 85%, non-condensing 8 - 85%, non-condensing 4MP281.0571-12 IP54 (with cable and handle) 306.6 x 76 x 270.6 306.6 x 175.2 x 270.6 Approx. 1.65 kg 1 m to industrial floor
Storage temperature Relative humidity - operatio Relative humidity - storage Mechanics Protection type Outer dimensions (W x H x Without handle Weight Drop height Required accessories 5CAMPH.0018-10 5CAMPH.0100-10 5CAMPH.0100-10 5CAMPH.0150-10	D [mm]) MP100/200 attatchment cal MP100/200 attatchment cal MP100/200 attatchment cal MP100/200 attatchment cal	0°C to +45°C -20°C to +60°C 45 - 85%, non-condensing 8 - 85%, non-condensing 4MP251.0571-12 IP54 (with cable and handle) 306.6 x 76 x 270.6 306.6 x 175.2 x 270.6 Approx. 1.65 kg 1 m to industrial floor	0°C to +45°C -20°C to +60°C 45 - 85%, non-condensing 8 - 85%, non-condensing 4MP281.0571-12 IP54 (with cable and handle) 306.6 x 76 x 270.6 306.6 x 175.2 x 270.6 Approx. 1.65 kg 1 m to industrial floor
Storage temperature Relative humidity - operatio Relative humidity - storage Mechanics Protection type Outer dimensions (W x H x Without handle Weight Drop height Required accessories 5CAMPH.0018-10 5CAMPH.0050-10 5CAMPH.0150-10 5CAMPH.0150-10 5CAMPH.0150-10 5CAMPH.0200-10	D [mm]) MP100/200 attatchment cat	0°C to +45°C -20°C to +60°C 45 -85%, non-condensing 8 - 85%, non-condensing 8 - 85%, non-condensing 4MP251.0671-12 IP54 (with cable and handle) 306.6 x 76 x 270.6 306.6 x 175.2 x 270.6 Approx. 1.65 kg 1 m to industrial floor	0°C to +45°C -20°C to +60°C 45 -85%, non-condensing 8 -85%, non-condensing 18 -85%, non-condensing 18 -85%, non-condensing 20 -85%, non-condensing 21 -85%, non-condensing 22 -85%, non-condensing 23 -85%, non-condensing 24 -85%, non-condensing 25 -85%, non-condensing 26 -85%, non-condensing 26 -85%, non-condensing 27 -85%, non-condensing 28 -85%, non-condensing 28 -85%, non-condensing 28 -85%, non-condensing 29 -85%, non-condensing 20
Storage temperature Relative humidity - operatio Relative humidity - storage Mechanics Protection type Outer dimensions (W x H x Without handle Weight Drop height Required accessories 5CAMPH.0018-10 5CAMPH.0100-10 5CAMPH.0100-10 5CAMPH.0150-10	D [mm]) MP100/200 attatchment cal MP switching cabinet cable	0°C to +45°C -20°C to +60°C 45 - 85%, non-condensing 8 - 85%, non-condensing 4MP251.0571-12 IP54 (with cable and handle) 306.6 x 76 x 270.6 306.6 x 175.2 x 270.6 Approx. 1.65 kg 1 m to industrial floor	0°C to +45°C -20°C to +60°C 45 - 85%, non-condensing 8 - 85%, non-condensing 4MP281.0571-12 IP54 (with cable and handle) 306.6 x 76 x 270.6 306.6 x 175.2 x 270.6 Approx. 1.65 kg 1 m to industrial floor

Mobile Panel MP281 embedded 8.4" TFT color Touch



Controller		4MP281.0843-13	
Processor		Geode SC2200 266 MHz, MMX compatible	
Main memory		64 MB DRAM	
Graphics memory		4 MB shared memory (reserved from the main memory)	
SRAM		256 KB onboard, battery-buffered	
CompactFlash slot		1 slot for Type I CompactFlash cards (behind the cover)	
Battery 1)		Lithium, 950 mAh	
Mode/Node switch 1)		2, 16 positions each (back side)	
Accessible by removing th	e handle	, .,	
Display		4MP281.0843-13	
Гуре		TFT color	
Colors		256	
Resolution		VGA, 640 x 480 pixels	
Diagonal		8.4"	
ů .		120 cd/m ²	
Brightness		120 ca/m² 50,000 h	
Half-brightness time Touch screen			
		Analog resistive	<u> </u>
Keys		4MP281.0843-13	
System keys		Number block	
- "		4 system keys	
E-stop 1)		Yes (2 N.C., right position)	
Key switch 1)		Yes (1 normally open, momentary, left position)	
Connection via Mobile Pan	el cable		
nterfaces		4MP281.0843-13	
Serial		RS232 (RxD and TxD, not modem-capable)	
USB		1x USB 1.1, connection type A (behind the cover)	
Ethernet 1)		RJ45 twisted pair (10 BaseT / 100 BaseT)	
CAN bus 1)		Electrically isolated	
Connection via Mobile Pan	el cable		
24 VDC supply		4MP281.0843-13	
Input voltage ¹⁾		24 VDC ±25%, electrically isolated	
Connection via Mobile Pan	el cable		
Environmental condition	ons	4MP281.0843-13	
Temperature			
Operation		0°C to +45°C	
Storage		-20°C to +60°C	
Relative humidity			
Operation		45 - 85%, non-condensing	
Storage		8 - 85%, non-condensing	
Mechanics		4MP281.0843-13	
Protection type		IP54 (with cable and handle)	
Outer dimensions (W x	H x D [mm])		
Without handle	. "	306.6 x 76 x 270.6	
With handle		306.6 x 175.2 x 270.6	
Weight		Approx. 1.9 kg	
Drop height		1 m to industrial floor	
DIOP Height		i iii to iiiddati/di liooi	
Required accessories			
5CAMPH.0018-10	MP100/200 attatchment	cable PP 1.8 m	₽ 904
5CAMPH.0050-10	MP100/200 attatchment		⊞ 904
JOANNI 11.0030-10	1411 100/200 attatemment	COUDICTTOTII	E 304

Required accessories		
5CAMPH.0018-10	MP100/200 attatchment cable PP 1.8 m	∄ 904
5CAMPH.0050-10	MP100/200 attatchment cable PP 5 m	∄ 904
5CAMPH.0100-10	MP100/200 attatchment cable PP 10 m	∄ 904
5CAMPH.0150-10	MP100/200 attatchment cable PP 15 m	∄ 904
5CAMPH.0200-10	MP100/200 attatchment cable PP 20 m	∄ 904
5CAMPC.0020-10	MP switching cabinet cable CO PP 2 m (Ethernet crossover)	∄ 905
5CAMPC.0020-11	MP switching cabinet cable ST PP 2 m (Ethernet straight)	₿ 905
	CompactFlash cards	⊞ 1126

Mobile Panel MP181 BIOS 8.4" TFT color touch



Controller	5MP181.0843-07
Processor	Geode SC2200 266 MHz, MMX compatible
Main memory	128MB DRAM
Graphics memory	4 MB shared memory (reserved from the main memory)
SRAM	
CompactFlash slot	1 slot for Type I CompactFlash cards (behind the cover)
Battery 1)	Lithium, 950 mAh
Mode/Node switch 1)	2, 16 positions each (back side)
) Accessible by removing the handle	Ly to positions such (such state)
Display	5MP181.0843-07
Type	TFT color
Colors	262.144 1)
Resolution	VGA, 640 x 480 pixels
Diagonal	8.4"
•	6.4 120 cd/m²
Brightness	
Half-brightness time	50,000 h
Touch screen	Analog resistive
	s memory, the graphics mode configured, and the graphics driver being used.
Keys	5MP181.0843-07
System keys	Number block
	4 system keys
E-stop 1)	Yes (2 N.C., right position)
Key switch 1)	Yes (1 normally open, momentary, left position)
) Connection via Mobile Panel cable	
Interfaces	5MP181.0843-07
Serial	RS232 (RxD and TxD, not modem-capable)
USB	1x USB 1.1, connection type A (behind the cover)
Ethernet 1)	RJ45 twisted pair (10 BaseT / 100 BaseT)
) Connection via Mobile Panel cable	
24 VDC supply	5MP181.0843-07
Input voltage 1)	24 VDC ±25%, electrically isolated
) Connection via Mobile Panel cable	
Environmental conditions	5MP181.0843-07
Temperature	
Operation	0°C to +45°C
Storage	-20°C to +60°C
Relative humidity	
Operation	45 - 85%, non-condensing
Storage	8 - 85%, non-condensing
Mechanics	5MP181.0843-07
Protection type	IP54 (with cable and handle)
Outer dimensions (W x H x D [mm])	ii o i (mai ouolo una nunulo)
With handle	306.6 x 175.2 x 270.6
Weight	Approx. 1.9 kg
-	Approx. 1.9 kg 1 m to industrial floor
Drop height	i iii to industriai noor

Required accessories		
5CAMPH.0018-10	MP100/200 attatchment cable PP 1.8 m	∄ 904
5CAMPH.0050-10	MP100/200 attatchment cable PP 5 m	∄ 904
5CAMPH.0100-10	MP100/200 attatchment cable PP 10 m	∄ 904
5CAMPH.0150-10	MP100/200 attatchment cable PP 15 m	∄ 904
5CAMPH.0200-10	MP100/200 attatchment cable PP 20 m	∄ 904
5CAMPC.0020-10	MP switching cabinet cable CO PP 2 m (Ethernet crossover)	∄ 905
5CAMPC.0020-11	MP switching cabinet cable ST PP 2 m (Ethernet straight)	₿ 905
	CompactFlash cards	∄ 1126

Mobile Panel MP40 BIOS 3.8" LCD monochrome



Controller	31417 040.030 1-01
Processor	Intel PXA 270/416 MHz
Main memory	256 MB
Graphics memory	Reserved in main memory
SRAM	•
CompactFlash slot	
Battery	-
Mode/node switches	•
Display	5MP040.0381-01
Туре	LCD monochrome
Colors	16 shades of gray ¹⁾
Resolution	QVGA 320 x 240 pixels
Diagonal	3.8"
Brightness	110 cd/m²
Half-brightness time	50,000 h
1) The actual number of colors depends on the graphic	cs memory, the graphics mode configured, and the graphics driver being used.
Operation	5MP040.0381-01
Touch screen	
Keys	
Soft keys	6
System keys	51
LEDs	7
Stop button	Yes (2 N.C., right position)
Enable switch	Yes (two 3-step switches), left and right position
Mounted in the middle	
Electronic handwheel	•
3 axes joystick	•
Mounted on the left	
Illuminated button	•
Key switch	•
Override potentiometer	•
Interfaces	5MP040.0381-01
USB	1x USB 1.1, connection type A (behind the cover)
Ethernet ¹⁾	RJ45 twisted pair (10 BaseT / 100 BaseT)
1) Connection via Mobile Panel cable	
24 VDC supply	5MP040.0381-01
Input voltage 1)	24 VDC ± 25%
1) Connection via Mobile Panel cable	

Environmental conditions	5MP040.0381-01
Temperature	
Operation	0°C to +50°C
Storage	-20°C to +70°C
Relative humidity	5% - 95% (non-condensing)
Mechanics	5MP040.0381-01
Protection type	IP65
Outer dimensions (W x H x D [mm])	
With handle	250 x 250 x 114
Weight	Approx. 1.1 kg
Drop height	1.5 m to industrial floor

Required accessories		
5CAMPH.0018-30	MP40/50 attatchment cable PP 1.8 m	⊞ 904
5CAMPH.0050-30	MP40/50 attatchment cable PP 5 m	₿ 904
5CAMPH.0100-30	MP40/50 attatchment cable PP 10 m	₿ 904
5CAMPH.0150-30	MP40/50 attatchment cable PP 15 m	⊞ 904
5CAMPH.0200-30	MP40/50 attatchment cable PP 20 m	⊞ 904
5CAMPC.0020-10	MP switching cabinet cable CO PP 2 m (Ethernet crossover)	⊞ 905
5CAMPC.0020-11	MP switching cabinet cable ST PP 2 m (Ethernet straight)	₿ 905
5SWWCE.0524-ENG	OEM Microsoft Windows CE 5.0 Pro for MP40 PXA270	∄ 1117
5SWWCE.0624-ENG	OEM Microsoft Windows CE 5.0 ProPlus for MP40 PXA270	∄ 1117
5SWWCE.0724-ENG	OEM Microsoft Windows CE 5.0 ProTCAR (Terminal Client AR) for MP40 PXA270	∄ 1117

Mobile Panel MP40 BIOS 3.8" LCD monochrome



Processor	Intel PXA 270/416 MHz
Main memory	256 MB
Graphics memory	Reserved in main memory
SRAM	-
CompactFlash slot	
Battery	
Mode/node switches	•
Display	5MP040.0381-02
Туре	LCD monochrome
Colors	16 shades of gray ¹⁾
Resolution	QVGA 320 x 240 pixels
Diagonal	3.8"
Brightness	110 cd/m²
Half-brightness time	50,000 h
1) The actual number of colors depends on the graphics memo	ry, the graphics mode configured, and the graphics driver being used.
Operation	5MP040.0381-02
Touch screen	•
Keys	
Soft keys	6
System keys	51
LEDs	7
Stop button	Yes (2 N.C., right position)
Enable switch	Yes (two 3-step switches), left and right position
Mounted in the middle	
Electronic handwheel	Yes
3 axes joystick	
Mounted on the left	
Illuminated button	
Key switch	Yes
Override potentiometer	
Interfaces	5MP040.0381-02
USB	1x USB 1.1, connection type A (behind the cover)
Ethernet ¹⁾	RJ45 twisted pair (10 BaseT / 100 BaseT)
1) Connection via Mobile Panel cable	
24 VDC supply	5MP040.0381-02
Input voltage 1)	24 VDC ± 25%
1) Connection via Mobile Panel cable	

Environmental conditions	5MP040.0381-02
Temperature	
Operation	0°C to +50°C
Storage	-20°C to +70°C
Relative humidity	5% - 95% (non-condensing)
Mechanics	5MP040.0381-02
Protection type	IP65
Outer dimensions (W x H x D [mm])	
With handle	250 x 250 x 114
Weight	Approx. 1.1 kg
Drop height	1.5 m to industrial floor

Required accessories		
5CAMPH.0018-30	MP40/50 attatchment cable PP 1.8 m	₿ 904
5CAMPH.0050-30	MP40/50 attatchment cable PP 5 m	₿ 904
5CAMPH.0100-30	MP40/50 attatchment cable PP 10 m	₿ 904
5CAMPH.0150-30	MP40/50 attatchment cable PP 15 m	⊞ 904
5CAMPH.0200-30	MP40/50 attatchment cable PP 20 m	₿ 904
5CAMPC.0020-10	MP switching cabinet cable CO PP 2 m (Ethernet crossover)	₿ 905
5CAMPC.0020-11	MP switching cabinet cable ST PP 2 m (Ethernet straight)	₿ 905
5SWWCE.0524-ENG	OEM Microsoft Windows CE 5.0 Pro for MP40 PXA270	₾ 1117
5SWWCE.0624-ENG	OEM Microsoft Windows CE 5.0 ProPlus for MP40 PXA270	⊞ 1117
5SWWCE.0724-ENG	OEM Microsoft Windows CE 5.0 ProTCAR (Terminal Client AR) for MP40 PXA270	∄ 1117



Processor	Intel PXA 270/416 MHz
Main memory	256 MB
Graphics memory	Reserved in main memory
SRAM	-
CompactFlash slot	
Battery	-
Mode/node switches	•
Display	5MP050.0653-01
Туре	TFT color
Colors	65535 ¹⁾
Resolution	VGA 640x480 pixels
Diagonal	6.5"
Brightness	400 cd/m ²
Half-brightness time	50,000 h
1) The actual number of colors depends on the graphics memor	y, the graphics mode configured, and the graphics driver being used.
Operation	5MP050.0653-01
Touch screen	Yes
Keys	
Soft keys	•
System keys	31
LEDs	4
Stop button	Yes (2 N.C., right position)
Enable switch	Yes (two 3-step switches), left and right position
Mounted in the middle	
Electronic handwheel	Yes
3 axes joystick	•
Mounted on the left	
Illuminated button	Yes
Key switch	
Override potentiometer	
Interfaces	5MP050.0653-01
USB	1x USB 1.1, connection type A (behind the cover)
Ethernet ¹⁾	RJ45 twisted pair (10 BaseT / 100 BaseT)
1) Connection via Mobile Panel cable	
24 VDC supply	5MP050.0653-01
Input voltage 1)	24 VDC ± 25%
1) Connection via Mobile Panel cable	

1) Connection via Mobile Panel cable

Environmental conditions	5MP050.0653-01
Temperature	
Operation	0°C to +50°C
Storage	-20°C to +70°C
Relative humidity	5% - 95% (non-condensing)
Mechanics	5MP050.0653-01
Protection type	IP65
Outer dimensions (W x H x D [mm])	
With handle	250 x 250 x 114
Weight	Approx. 1.1 kg
Drop height	1.5 m to industrial floor

Required accessories		
5CAMPH.0018-30	MP40/50 attatchment cable PP 1.8 m	₿ 904
5CAMPH.0050-30	MP40/50 attatchment cable PP 5 m	₿ 904
5CAMPH.0100-30	MP40/50 attatchment cable PP 10 m	⊞ 904
5CAMPH.0150-30	MP40/50 attatchment cable PP 15 m	₿ 904
5CAMPH.0200-30	MP40/50 attatchment cable PP 20 m	₿ 904
5CAMPC.0020-10	MP switching cabinet cable CO PP 2 m (Ethernet crossover)	₿ 905
5CAMPC.0020-11	MP switching cabinet cable ST PP 2 m (Ethernet straight)	₿ 905
5SWWCE.0525-ENG	OEM Microsoft Windows CE 5.0 Pro for MP50 PXA270	∄ 1117
5SWWCE.0625-ENG	OEM Microsoft Windows CE 5.0 ProPlus for MP50 PXA270	∄ 1117
5SWWCE.0725-ENG	OEM Microsoft Windows CE 5.0 ProTCAR (Terminal Client AR) for MP50 PXA270	∄ 1117



Controller	51/11/050.0053-02
Processor	Intel PXA 270/416 MHz
Main memory	256 MB
Graphics memory	Reserved in main memory
SRAM	-
CompactFlash slot	-
Battery	-
Mode/node switches	•
Display	5MP050.0653-02
Туре	TFT color
Colors	65535 ¹⁾
Resolution	VGA 640x480 pixels
Diagonal	6.5"
Brightness	400 cd/m ²
Half-brightness time	50,000 h
1) The actual number of colors depends on the graphics memory	, the graphics mode configured, and the graphics driver being used.
Operation	5MP050.0653-02
Touch screen	Yes
Keys	
Soft keys	•
System keys	31
LEDs	4
Stop button	Yes (2 N.C., right position)
Enable switch	Yes (two 3-step switches), left and right position
Mounted in the middle	
Electronic handwheel	-
3 axes joystick	Yes
Mounted on the left	
Illuminated button	•
Key switch	Yes
Override potentiometer	
Interfaces	5MP050.0653-02
USB	1x USB 1.1, connection type A (behind the cover)
Ethernet ¹⁾	RJ45 twisted pair (10 BaseT / 100 BaseT)
1) Connection via Mobile Panel cable	
24 VDC supply	5MP050.0653-02
Input voltage 1)	24 VDC ± 25%
1) Connection via Mobile Panel cable	

Environmental conditions	5MP050.0653-02
Temperature	
Operation	0°C to +50°C
Storage	-20°C to +70°C
Relative humidity	5% - 95% (non-condensing)
Mechanics	5MP050.0653-02
Protection type	IP65
Outer dimensions (W x H x D [mm])	
With handle	250 x 250 x 114
Weight	Approx. 1.1 kg
Drop height	1.5 m to industrial floor

Required accessories		
5CAMPH.0018-30	MP40/50 attatchment cable PP 1.8 m	₿ 904
5CAMPH.0050-30	MP40/50 attatchment cable PP 5 m	₿ 904
5CAMPH.0100-30	MP40/50 attatchment cable PP 10 m	⊞ 904
5CAMPH.0150-30	MP40/50 attatchment cable PP 15 m	₿ 904
5CAMPH.0200-30	MP40/50 attatchment cable PP 20 m	₿ 904
5CAMPC.0020-10	MP switching cabinet cable CO PP 2 m (Ethernet crossover)	₿ 905
5CAMPC.0020-11	MP switching cabinet cable ST PP 2 m (Ethernet straight)	₿ 905
5SWWCE.0525-ENG	OEM Microsoft Windows CE 5.0 Pro for MP50 PXA270	∄ 1117
5SWWCE.0625-ENG	OEM Microsoft Windows CE 5.0 ProPlus for MP50 PXA270	∄ 1117
5SWWCE.0725-ENG	OEM Microsoft Windows CE 5.0 ProTCAR (Terminal Client AR) for MP50 PXA270	∄ 1117

Processor



Main memory	256 MB
Graphics memory	Reserved in main memory
SRAM	
CompactFlash slot	
Battery	
Mode/node switches	•
Display	5MP050.0653-03
Туре	TFT color
Colors	65535 ¹⁾
Resolution	VGA 640x480 pixels
Diagonal	6.5"
Brightness	400 cd/m ²
Half-brightness time	50,000 h
1) The actual number of colors depends on the graphics memory, the	e graphics mode configured, and the graphics driver being used.
Operation	5MP050.0653-03
Touch screen	Yes
Keys	
Soft keys	•
System keys	31
LEDs	4
Stop button	Yes (2 N.C., right position)
Enable switch	Yes (two 3-step switches), left and right position
Mounted in the middle	
Electronic handwheel	Yes
3 axes joystick	
Mounted on the left	
Illuminated button	•
Key switch	
Override potentiometer	Yes
Interfaces	5MP050.0653-03
USB	1x USB 1.1, connection type A (behind the cover)
Ethernet ¹⁾	RJ45 twisted pair (10 BaseT / 100 BaseT)
1) Connection via Mobile Panel cable	
24 VDC supply	5MP050.0653-03
Input voltage 1)	24 VDC ± 25%
4) Commention with Markita Donal and I	

Intel PXA 270/416 MHz

1) Connection via Mobile Panel cable

Environmental conditions	5MP050.0653-03
Temperature	
Operation	0°C to +50°C
Storage	-20°C to +70°C
Relative humidity	5% - 95% (non-condensing)
Mechanics	5MP050.0653-03
Protection type	IP65
Outer dimensions (W x H x D [mm])	
With handle	250 x 250 x 114
Weight	Approx. 1.1 kg
Drop height	1.5 m to industrial floor

Required accessories		
5CAMPH.0018-30	MP40/50 attatchment cable PP 1.8 m	₿ 904
5CAMPH.0050-30	MP40/50 attatchment cable PP 5 m	₿ 904
5CAMPH.0100-30	MP40/50 attatchment cable PP 10 m	⊞ 904
5CAMPH.0150-30	MP40/50 attatchment cable PP 15 m	₿ 904
5CAMPH.0200-30	MP40/50 attatchment cable PP 20 m	₿ 904
5CAMPC.0020-10	MP switching cabinet cable CO PP 2 m (Ethernet crossover)	₿ 905
5CAMPC.0020-11	MP switching cabinet cable ST PP 2 m (Ethernet straight)	₿ 905
5SWWCE.0525-ENG	OEM Microsoft Windows CE 5.0 Pro for MP50 PXA270	∄ 1117
5SWWCE.0625-ENG	OEM Microsoft Windows CE 5.0 ProPlus for MP50 PXA270	∄ 1117
5SWWCE.0725-ENG	OEM Microsoft Windows CE 5.0 ProTCAR (Terminal Client AR) for MP50 PXA270	∄ 1117

Processor



Main memory	256 MB
Graphics memory	Reserved in main memory
SRAM	
CompactFlash slot	
Battery	
Mode/node switches	•
Display	5MP050.0653-04
Туре	TFT color
Colors	65535 ¹⁾
Resolution	VGA 640x480 pixels
Diagonal	6.5"
Brightness	400 cd/m ²
Half-brightness time	50,000 h
1) The actual number of colors depends on the graphics memory, to	he graphics mode configured, and the graphics driver being used.
Operation	5MP050.0653-04
Touch screen	Yes
Keys	
Soft keys	
System keys	31
LEDs	4
Stop button	Yes (2 N.C., right position)
Enable switch	Yes (two 3-step switches), left and right position
Mounted in the middle	
Electronic handwheel	Yes
3 axes joystick	
Mounted on the left	
Illuminated button	•
Key switch	Yes
Override potentiometer	
Interfaces	5MP050.0653-04
USB	1x USB 1.1, connection type A (behind the cover)
Ethernet ¹⁾	RJ45 twisted pair (10 BaseT / 100 BaseT)
1) Connection via Mobile Panel cable	
24 VDC supply	5MP050.0653-04
Input voltage 1)	24 VDC ± 25%
1) Connection via Mobile Panel cable	

Intel PXA 270/416 MHz

Environmental conditions	5MP050.0653-04
Temperature	
Operation	0°C to +50°C
Storage	-20°C to +70°C
Relative humidity	5% - 95% (non-condensing)
Mechanics	5MP050.0653-04
Protection type	IP65
Outer dimensions (W x H x D [mm])	
With handle	250 x 250 x 114
Weight	Approx. 1.1 kg
Drop height	1.5 m to industrial floor

Required accessories		
5CAMPH.0018-30	MP40/50 attatchment cable PP 1.8 m	₿ 904
5CAMPH.0050-30	MP40/50 attatchment cable PP 5 m	₿ 904
5CAMPH.0100-30	MP40/50 attatchment cable PP 10 m	∄ 904
5CAMPH.0150-30	MP40/50 attatchment cable PP 15 m	₿ 904
5CAMPH.0200-30	MP40/50 attatchment cable PP 20 m	₿ 904
5CAMPC.0020-10	MP switching cabinet cable CO PP 2 m (Ethernet crossover)	₿ 905
5CAMPC.0020-11	MP switching cabinet cable ST PP 2 m (Ethernet straight)	₿ 905
5SWWCE.0525-ENG	OEM Microsoft Windows CE 5.0 Pro for MP50 PXA270	∄ 1117
5SWWCE.0625-ENG	OEM Microsoft Windows CE 5.0 ProPlus for MP50 PXA270	∄ 1117
5SWWCE.0725-ENG	OEM Microsoft Windows CE 5.0 ProTCAR (Terminal Client AR) for MP50 PXA270	∄ 1117

Connection box





Mechanics	4MPCBX.0000-00	4MPCBX.0001-00
Material		
Cover	GK-AlSi9Mg (chill casting)	GK-AlSi9Mg (chill casting)
Housing	GK-AlSi11Mg (chill casting)	GK-AlSi11Mg (chill casting)
Paint, color	Powdered RAL7012 fine structure	Powdered RAL7012 fine structure
Dimensions	172 x 158 x 74	157 x 90 x 74
Weight (without attachment cable)	Approx. 1 kg	Approx. 0.5 kg
E-stop	Yes	-
Hot plug button	Yes	-
Electrical characteristics	4MPCBX.0000-00	4MPCBX.0001-00
Power supply		
Rated voltage	18 - 30 VDC	-
Current requirements	Typically 150 mA	-
Power consumption	Approx. 2 W	-
Environmental characteristics	4MPCBX.0000-00	4MPCBX.0001-00
Protection type	IP65 (only with screw-on caps and caps installed)	IP65 (only with cap)

Required accessories		
5CAMPB.0100-10	MP box cable PP 10 m (Ethernet crossover)	₿ 906

Handle

MP100/200 handle



Brief overview	4MPHDL.0000-00
Outer dimensions (W x H x D [mm])	190 x 79.5 x 183
Weight	540 g
Enable switch	3-step (null, enable, panic position)

MP100/200 wall mount



Brief overview	4MPBRA.0000-00
Outer dimensions (W x H x D [mm])	140 x 305 x 109
Weight	680 g
Material	St37, powder-coated RAL 7016

MP40/50 wall mount



Mobile Panel cable

MP100/200 attachment cable



Brief overview	5CAMPH.0018-10	5CAMPH.0050-10	5CAMPH.0100-10	5CAMPH.0150-10	5CAMPH.0200-10
Туре	Attachment cable	Attachment cable	Attachment cable	Attachment cable	Attachment cable
Length	1.8 m ± 100 mm	5 m ± 100 mm	10 m ± 100 mm	15 m ± 150 mm	20 m ± 200 mm
Total diameter	10 mm	10 mm	10 mm	10 mm	10 mm
Material	Silicon and halogen-free, flame-retardant PUR outer sheathing				
Minimum flex radius	60 mm	60 mm	60 mm	60 mm	60 mm
Maximum tension	140 N	140 N	140 N	140 N	140 N
stress					
Standards	Flame retardant in accordance with IEC 60332-1 and VW1 / FT1 in accordance with C-UL, shield damping in accordance with			ng in accordance with	
	IEC 60096-1 Amendment 2. Mechanical characteristics according to DIN VDE 0472 part 603 test type H (100,000 cycles), oil resistant,				
		hydrolysis	resistant according to DIN V	DE 0282 part 10	

 Permissible operating

 temperature
 -20°C to +80°C
 -20°C to +60°C
 -5°C to +60°C

Cable elements
Ethernet
Enable switch
CAN bus
Entry devices
Power supply

Serial

Twisted pair cable (10/100 MBit/s); 4 wires 6 wires 5 wires 6 wires 24 VDC and ground, 3 wires RxD, TxD, 3 wires

MP40/50 attachment cable



Brief overview	5CAMPH.0018-30	5CAMPH.0050-30	5CAMPH.0100-30	5CAMPH.0150-30	5CAMPH.0200-30
Туре	Attachment cable	Attachment cable	Attachment cable	Attachment cable	Attachment cable
Length	1.8 m ± 100 mm	5 m ± 100 mm	10 m ± 100 mm	15 m ± 150 mm	20 m ± 150 mm
Total diameter	10 mm	10 mm	10 mm	10 mm	10 mm
Material		Silicon and ha	logen-free, flame-retardant P	PUR outer sheathing	
Minimum flex radius	60 mm	60 mm	60 mm	60 mm	60 mm
Maximum tension	140 N	140 N	140 N	140 N	140 N
stress					
Standards	Flame retardant	in accordance with IEC 6033	2-1 and VW1 / FT1 in accorda	ance with C-UL, shield dampi	ng in accordance with
	IEC 60096-1 Amend	ment 2. Mechanical character	ristics according to DIN VDE	0472 part 603 test type H (10	0,000 cycles), oil resistant,
		hydrolysis	resistant according to DIN V	DE 0282 part 10	
Permissible operating					
temperature	-20°C to +80°C	-20°C to +80°C	-20°C to +80°C	-20°C to +80°C	-20°C to +80°C
Non-moving state	-5°C to +60°C	-5°C to +60°C	-5°C to +60°C	-5°C to +60°C	-5°C to +60°C
In motion					
Cable elements					
Ethernet		Twis	sted pair cable (10/100 MBit/s	s); 4 wires	
Enable switch			4 wires		
Power supply	24 VDC and ground, 2 wires				
i owei suppiy					

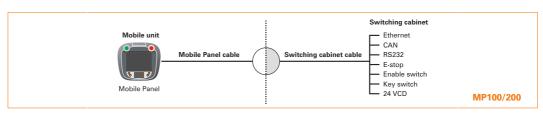
Switching cabinet cable for MP100/200 or MP40/50

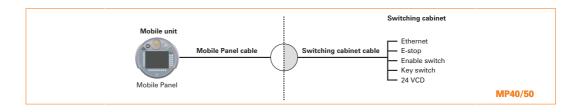


Brief overview	5CAMPC.0020-10	5CAMPC.0020-11
Type	Switching cabinet cable	Switching cabinet cable
	Ethernet crossover	Ethernet straight through
Length	2 m ± 50 mm	2 m ± 50 mm
Total diameter	10 mm	10 mm
Material		Silicon and halogen-free, flame-retardant PUR outer sheathing
Minimum flex radius	60 mm	60 mm
Maximum tension	140 N	140 N
stress		
Standards	Flame retardant in a	ccordance with IEC 60332-1 and VW1 / FT1 in accordance with C-UL, shield damping in accordance with
	IEC 60096-1 Amendmen	t 2. Mechanical characteristics according to DIN VDE 0472 part 603 test type H (100,000 cycles), oil resistant,
		hydrolysis resistant according to DIN VDE 0282 part 10
Permissible operating		
temperature	-20°C to +80°C	-20°C to +80°C
Non-moving state	-5°C to +60°C	-5°C to +60°C
In motion		
Cable elements		
Ethernet	Twisted pair cable (10/100 l	MBit/s); 4 wires
Enable switch	4 wires	
CAN bus	5 wires	
Entry devices	6 wires	
Power supply	24 VDC and ground, 3 wire	s s
Serial	RxD, TxD, 3 wires	

Cabling

The Mobile Panel is connected using a single cable that includes all supply, communication, and control lines. The cable can be plugged into the switching cabinet. The other end in the switching cabinet is a 2 m cable with open ends (Ethernet with RJ45 plug) for simple wiring.





Box cable



Brief overview	5CAMPB.0100-10
Type	Box cable Ethernet crossover
Length	10 m ± 100 mm
Total diameter	10 mm
Material	Silicon and halogen free, flame retardant PUR outer sheathing
Minimum flex radius	60 mm
Maximum tension stress	140 N
Standards	Flame retardant according to IEC 60332-1 and VW1 / FT1 according to C-UL
	Shield damping according to IEC 60096-1, amendment 2
	Mechanical characteristics according to DIN VDE 0472 section 603 test type H (100000 cycles)
	Oil resistant, hydrolysis resistant according to DIN VDE 0282 section 10
Permissible operating temperature	
Non-moving state	-20°C to +80°C
In motion	-5°C to +60°C

Reble elements

Network

Enable switch

2 x CAN bus

Twisted pair cable (10/100 MBit/s); 4 wires

6 wires

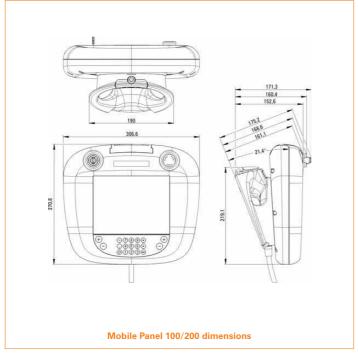
5 wires

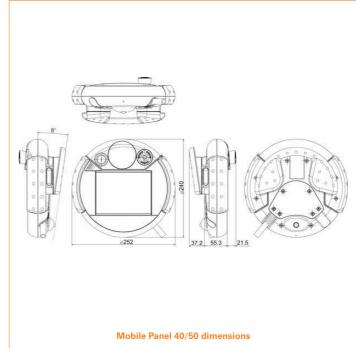
 Entry devices
 6 wires

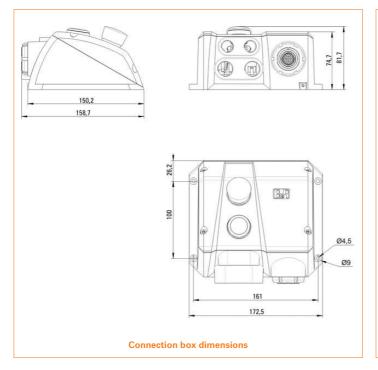
 Power supply
 24 VDC and ground, 3 wires

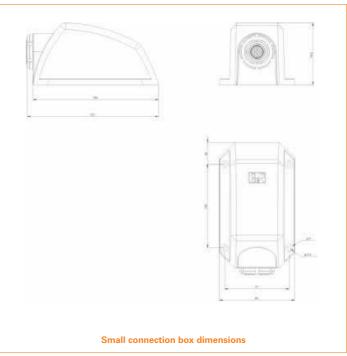
 Serial connection (RxD / TxD)
 RxD, TxD, 3 wires

Dimensions









All dimensions in mm