

4.5 Power Panel T30 - 7.0" variants

4.5.1 Order data


Order number	Short description	Figure
	Power Panel T30	
6PPT30.0702-20W	Power Panel T30, 7.0", landscape format. CPU and memory: 600 MHz (ARM Cortex-A8), 512 MB onboard flash drive. Display and touch screen: 7.0", 800 x 480 (WVGA) resolution, analog resistive touch screen, landscape format, aluminum white pinstripe. Interfaces: 2x Ethernet 10/100 Mbit/s (integrated switch), 2x USB 2.0. Client software: Integrated service page, VNC client, embedded web browser.	
6PPT30.0702-20B	Power Panel T30, 7.0", landscape format. CPU and memory: 600 MHz (ARM Cortex-A8), 512 MB onboard flash drive. Display and touch screen: 7.0", 800 x 480 (WVGA) resolution, analog resistive touch screen, landscape format, anthracite gray pinstripe. Interfaces: 2x Ethernet 10/100 Mbit/s (integrated switch), 2x USB 2.0. Client software: Integrated service page, VNC client, embedded web browser.	
6PPT30.070M-20W	Power Panel T30, 7.0", portrait format. CPU and memory: 600 MHz (ARM Cortex-A8), 512 MB onboard flash drive. Display and touch screen: 7.0", 480 x 800 (WVGA) resolution, analog resistive touch screen, portrait format, aluminum white pinstripe. Interfaces: 2x Ethernet 10/100 Mbit/s (integrated switch), 2x USB 2.0. Client software: Integrated service page, VNC client, embedded web browser.	
6PPT30.070M-20B	Power Panel T30, 7.0", portrait format. CPU and memory: 600 MHz (ARM Cortex-A8), 512 MB onboard flash drive. Display and touch screen: 7.0", 480 x 800 (WVGA) resolution, analog resistive touch screen, portrait format, anthracite gray pinstripe. Interfaces: 2x Ethernet 10/100 Mbit/s (integrated switch), 2x USB 2.0. Client software: Integrated service page, VNC client, embedded web browser.	
	Included in delivery	
	Terminal blocks	
0TB6102.2110-01	Accessory terminal block, 2-pin (3.81), cage clamp terminal block 1.5 mm ²	
	Optional accessories	
	Accessories	
9A0013.01	Stylus pen for resistive touch screen	
	Other	
6ACCRPP1.0000-000	Installation kit for Power Panel T-Series variants: 6x retaining clips (orange), 1x 2-pin cage clamp terminal block, 1x 2-pin screw clamp terminal block. See the accessories of the Power Panel variant in the corresponding data sheet or on the website.	
	Terminal blocks	
0TB6102.2010-01	Accessory terminal block, 2-pin (3.81), screw clamp terminal block 1.5 mm ²	
	USB accessories	
5MMUSB.2048-01	USB 2.0 flash drive 2048 MB B&R	
5MMUSB.4096-01	USB 2.0 flash drive 4096 MB B&R	

Table: Power Panel T30 - 7.0" variants - Order data

4.5.2 Content of delivery

Name	Quantity	Description
0TB6102.2110-01	1	Accessory terminal block, 2-pin (3.81), cage clamp terminal block 1.5 mm ²
-	1	Accessory set 5x retaining clip for fastening the panel in the installation cutout

4.5.3 Technical data

Order number	6PPT30.0702-20W	6PPT30.0702-20B	6PPT30.070M-20W	6PPT30.070M-20B
General information				
LEDs	Ethernet			
B&R ID code	0xE591	0xE592	0xE593	0xE594
Cooling	Passive			
Power button	No			
Reset button	No			
Buzzer	Yes			
Support				
mapp View	Yes ¹⁾			

Table: Power Panel T30 - 7.0" variants - Technical data

Device description

Order number	6PPT30.0702-20W	6PPT30.0702-20B	6PPT30.070M-20W	6PPT30.070M-20B
Certifications				
CE	Yes			
UKCA	Yes			
ATEX	Zone 2, II 3G Ex nA IIA T5 Gc Zone 22, II 3D Ex tc IIIC T70°C Dc Front IP65, back IP20 Ta (see user's manual) TÜV 16 ATEX 7815X			
UL	cULus E115267 Industrial control equipment			
DNV	Temperature: B (0 - 55°C) Humidity: B (up to 100%) Vibration: A (0.7 g) EMC: B (bridge and open deck)			
LR	ENV1			
KR	Yes			
ABS	Yes			
BV	EC31B Temperature: 5 - 55°C Vibration: 0.7 g EMC: Bridge and open deck			
EAC	Yes			
Controller				
Operating system	PPT30 system			
Real-time clock	No			
Processor				
Type	ARM Cortex-A8			
Clock frequency	1 GHz ²⁾			
L1 cache	64 kB			
L2 cache	256 kB			
Flash	512 MB			
Mode/Node switches	No			
DRAM	256 MB			
Display				
Type	TFT color			
Diagonal	7.0"			
Colors	16.7 million (RGB, 8 bits per channel)			
Resolution	WVGA, 800 x 480 pixels		WVGA, 480 x 800 pixels	
Contrast	Rev. ≥ G3: Typ. 550:1 Rev. < G3: Typ. 600:1			
Viewing angles				
Horizontal	Direction L / Direction R = Typ. 70°		Revision ≥ G3: Direction L / Direction R = Typ. 50° Revision < G3: Direction L / Direction R = Typ. 60°	
Vertical	Revision ≥ G3: Direction U / Direction D = Typ. 50° Revision < G3: Direction U / Direction D = Typ. 60°		Direction U / Direction D = Typ. 70°	
Backlight				
Type	LED			
Brightness	Typ. 500 cd/m ²			
Half-brightness time ³⁾	50,000 h			
Touch screen				
Type	AMT			
Technology	Analog resistive			
Controller	B&R, 12-bit			
Transmittance	80% ±3%			
Screen rotation	Yes			
Interfaces				
Interface				
Connection	ETH1 (IF1) and ETH2 (IF2)			
Type	Ethernet			
Variant	Shielded RJ45 (integrated 2-port switch)			
Line length	Max. 100 m between 2 stations (segment length)			
Max. transfer rate	10/100 Mbit/s			
Transfer				
Physical layer	10BASE-T / 100BASE-TX			
Half-duplex	Yes			
Full-duplex	Yes			
Autonegotiation	Yes			
Auto-MDI/MDIX	Yes			
Interface IF3				
Type	USB 2.0			
Variant	Type A			
Current-carrying capacity	0.5 A ⁴⁾			

Table: Power Panel T30 - 7.0" variants - Technical data

Order number	6PPT30.0702-20W	6PPT30.0702-20B	6PPT30.070M-20W	6PPT30.070M-20B
Interface IF4				
Type	USB 2.0			
Variant	Type A			
Current-carrying capacity	0.2 A ⁵⁾			
Electrical properties				
Nominal voltage	24 VDC			
Max. current at nominal voltage	389 mA			
Max. power consumption	9.34 W			
Fuse	4 A slow-blow, internal ⁶⁾			
Voltage range	8 to 32 VDC			
Reverse polarity protection	Yes			
Electrical isolation	Ethernet (ETH1/IF1 and ETH2/IF2) to other interfaces, power supply and ground			
Operating conditions				
Permissible mounting orientations				
Standard mounting orientation	Vertical			
Inclination	±25°			
Rotation	In 90° increments (portrait/landscape)			
Installation elevation above sea level				
0 to 2000 m	No limitation			
>2000 m	Reduction of ambient temperature by 0.5°C per 100 m			
Degree of protection per EN 60529	Front: IP65, Back: IP20			
Degree of protection per UL 50	Front: Type 4X indoor use only			
Ambient conditions				
Temperature				
Operation	-20 to 60°C			
Storage	-20 to 70°C			
Transport	-20 to 70°C			
Relative humidity	See temperature/humidity diagram.			
Mechanical properties				
Front				
Design	Aluminum white pinstripe	Anthracite gray pinstripe	Aluminum white pinstripe	Anthracite gray pinstripe
Dimensions				
Width	197 mm		140 mm	
Height	140 mm		197 mm	
Depth	47.8 mm			
Weight	0.6 kg			

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- 1) Due to the power of the Power Panel, the following widget classes are fully supported: A.
- 2) The clock frequency is 600 MHz for hardware revisions prior to C0.
- 3) Value applies at an ambient temperature of 25°C. Reducing the brightness by 50% can increase the half-brightness time up to 50%.
- 4) The current-carrying capacity is 0.1 A for hardware revisions prior to B0.
- 5) The current-carrying capacity is 0.1 A for hardware revisions B0 to B2.
The current-carrying capacity is 0.5 A for hardware revisions prior to B0.
- 6) The internal fuse cannot be replaced by the user or reset.

4.5.4 Temperature/Humidity diagram

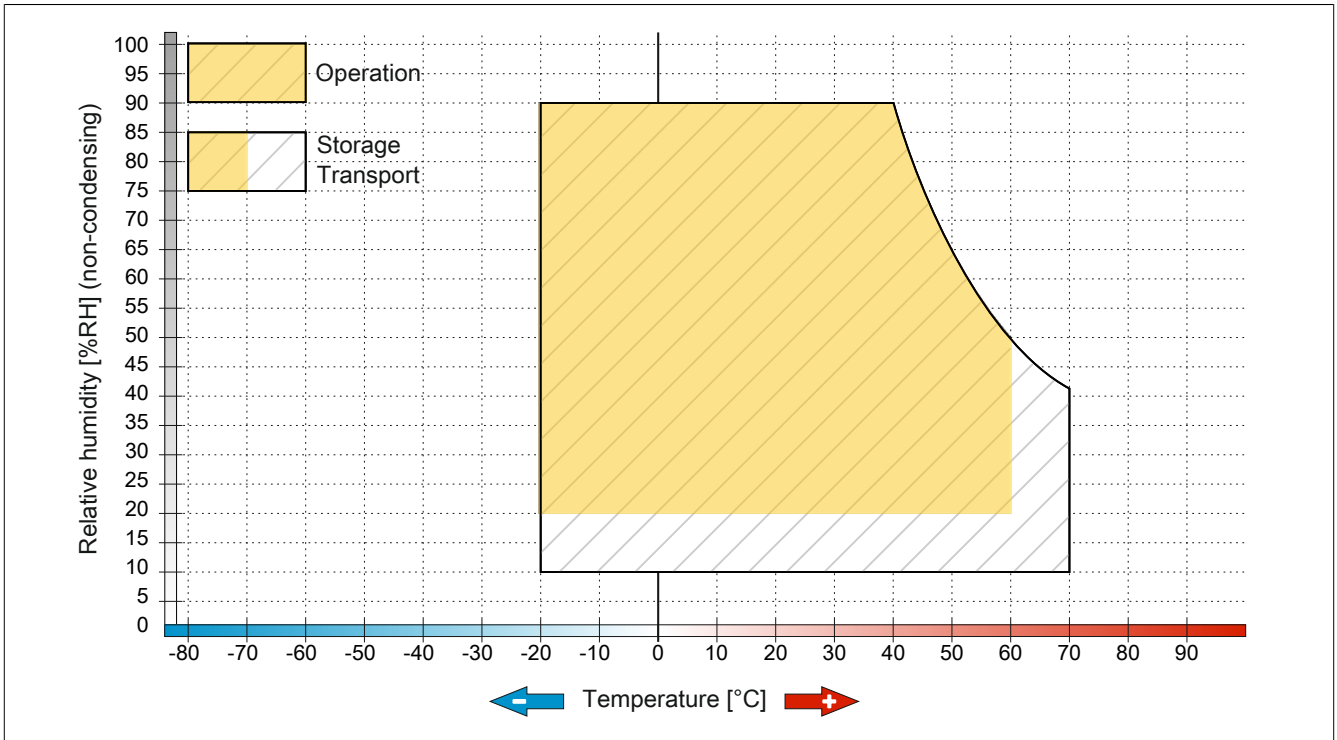
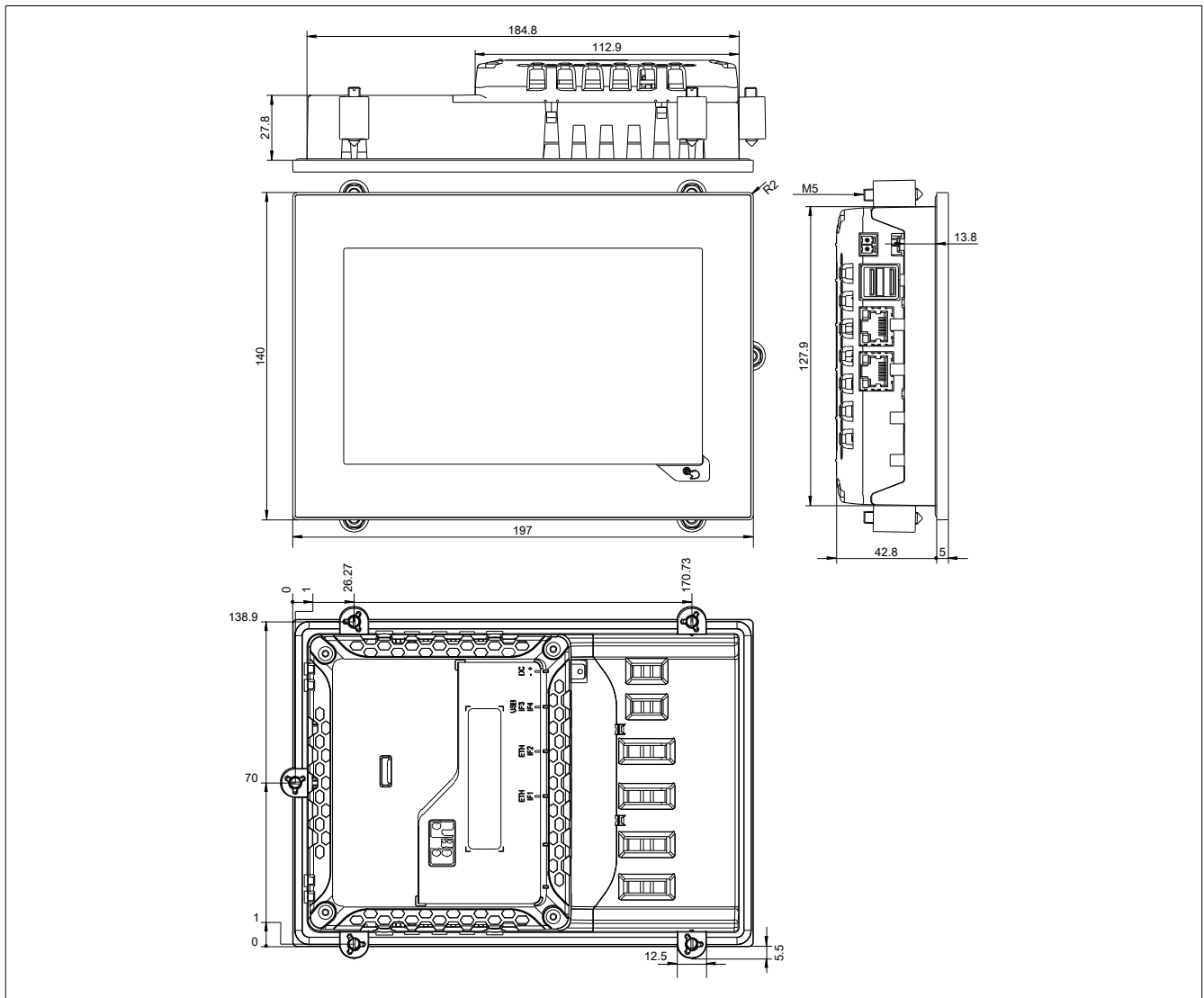


Figure: Power Panel T30 - 7.0" variants - Temperature/Humidity diagram

4.5.5 Dimensions

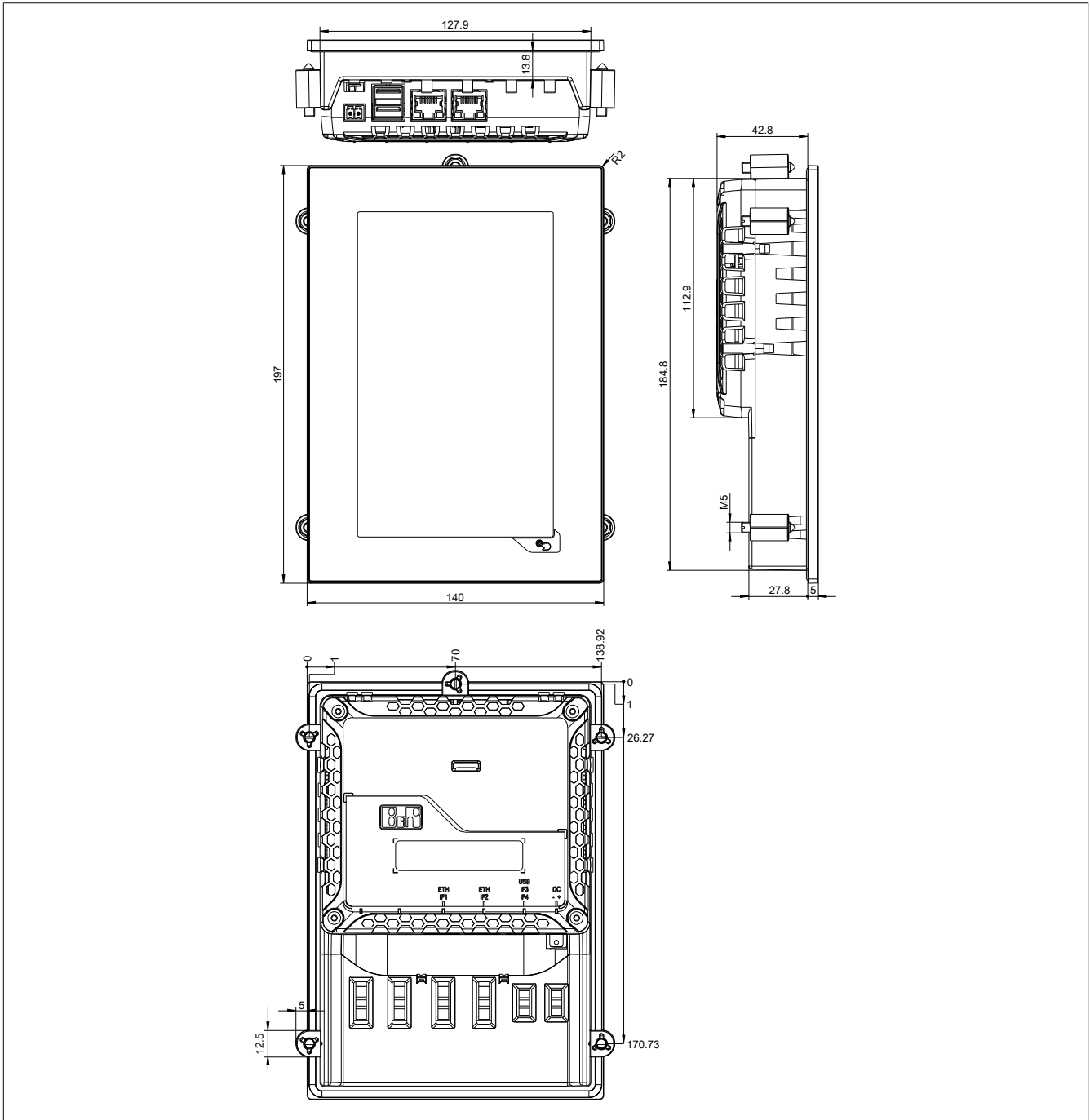
Landscape format for 7.0" variants



Dimensions of the installation cutout for this Power Panel variant: 186.8 ± 1 mm x 129.8 ± 1 mm

See also "Requirements for the installation cutout" on page 44.

Portrait format for 7.0" variants



Dimensions of the installation cutout for this Power Panel variant: 129.8 ±1 mm x 186.8 ±1 mm

See also ["Requirements for the installation cutout"](#) on page 44.