

HMI

KeTop T150 / T155 safe wireless

Handheld terminal



Product features

- // Selectable safe working area
- // Extremely short reaction times
- // Controller independent
- // Free choice of application
- // Platform independent
- // Multitouch screen
- // Landscape and portrait version



Short description

The series of the safe wireless products KeTop T150 (portrait version) and T155 (landscape version) combines user experiences from the high-end smartphone world like connectivity and multitouch use with safe machine operation. With KeTop T15x security solutions can be realized without any

restrictions. Any (safety) control can be used due to discrete safety outputs. Even retrofit solutions can be accomplished. A separation between data and safety signals provides stability. Enjoy operation without interruptions, thus highly available safety functions thanks to their transmission via Bluetooth. A densely used radio environment does not lead to any restrictions and guaranteed reaction times.

An optional effective range restriction prohibits operation in areas in which danger cannot be seen any more whilst the radio link still exists. It warns the operator or triggers an emergency stop if the defined threshold is exceeded. Thanks to Windows 10, multitouch and optional HMI-Software, any options for integration are feasible. Concentrate on the machine functions and trust in a safety-TUV-Rheinland-certification as well as in country-specific (Europe, Japan, USA and Canada) radio certifications.

Display	
Type	TFT
Size	10,1" (16:10)
Resolution	WXGA 800 x 1280 pixels (portrait version) / 1280 x 800 pixels (landscape version)
Touchscreen	Projective capacitive
Backlight	LED

Camera	
Video format	YUY2/MJPEG
Interface	USB 2.0
Resolution	5MP (2592*1944)
Position on the device	rear side







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Operating elements	
Membrane keyboard	max. 30 buttons, 6 LEDs, up to 14 motion buttons individually designable (customizing)
Selection switch	2 or 4 levels
Rotary encoded switch	16 levels
Key switch	2 or 3 positions
Push button	No-detent / detent
Handwheel	50 increments

Safety elements	
Enabling switch 3 positions	Safety category SIL 3 in accordance with IEC 61508, Category 4 / PLe in accordance with ISO 13849
Emergency-stop button	Safety category SIL 3 in accordance with IEC 61508, Category 4 / PLe in accordance with ISO 13849

Processor data	
CPU	Intel Celeron N-Series
Cores	Celeron N2807 Dual Core 1.58 GHz
GPU	Intel HD Graphics
Working memory	4GB RAM
Main memory	64 / 256 GB

Interfaces (for handheld terminal and base station)	
Communication	Visualization data: WLAN 2,4GHz or 5GHz, IEEE 802.11ac/a/b/g/n, Safety-data: Bluetooth 4.2 BLE, discrete relay output and semi-conductor output
Transfer	USB 2.0, RFID optional
RFID transponder	Pairing/ Unpairing distance: 10 cm
Motion output	14 DO (Keys- and/or control elements)

General	
Power supply	24 V DC
Protection rating	IP65
Certification	     
System components	Handheld terminal, Base station, charging station
Accessories	wall mount
Directives	Machinery Directive 2006/42/EC, RED Directive 2014/53/EU, RoHs Directive 2011/65/EU

Dimensions, weight (KeTop T150/155)	
Dimensions LxWxH	215 x 284 x 69 mm / 272 x 227 x 69 mm
Weight	approx. 1.450 g with battery
Internal battery capacity	3500 mAh (2-4 hours)

Dimensions, weight (Base station CB410)	
Dimensions LxWxH	210 x 160 x 70 mm
Weight	approx. 500 g