



## Main Features

- Modern, ergonomic, user-friendly and operated comfortably
- Multi channels deadman switch and E-Stop button
- Full IP65 protection
- 10.1" WXGA 1280 x 800 500 nits LED panel
- 5 points projected capacitive touch with full IP65 protection
- Two external USB 3.0 for data backup
- An emergency-stop button is available as further safety element
- Anti-vibration/shock IEC/EN 61131-2 compliance
- EMC (IEC/EN 61000-6-2/4, IEC/EN 61131-2) compliance
- Very light weight ( $\leq 1.5\text{Kg}$ ) in fanless PC model

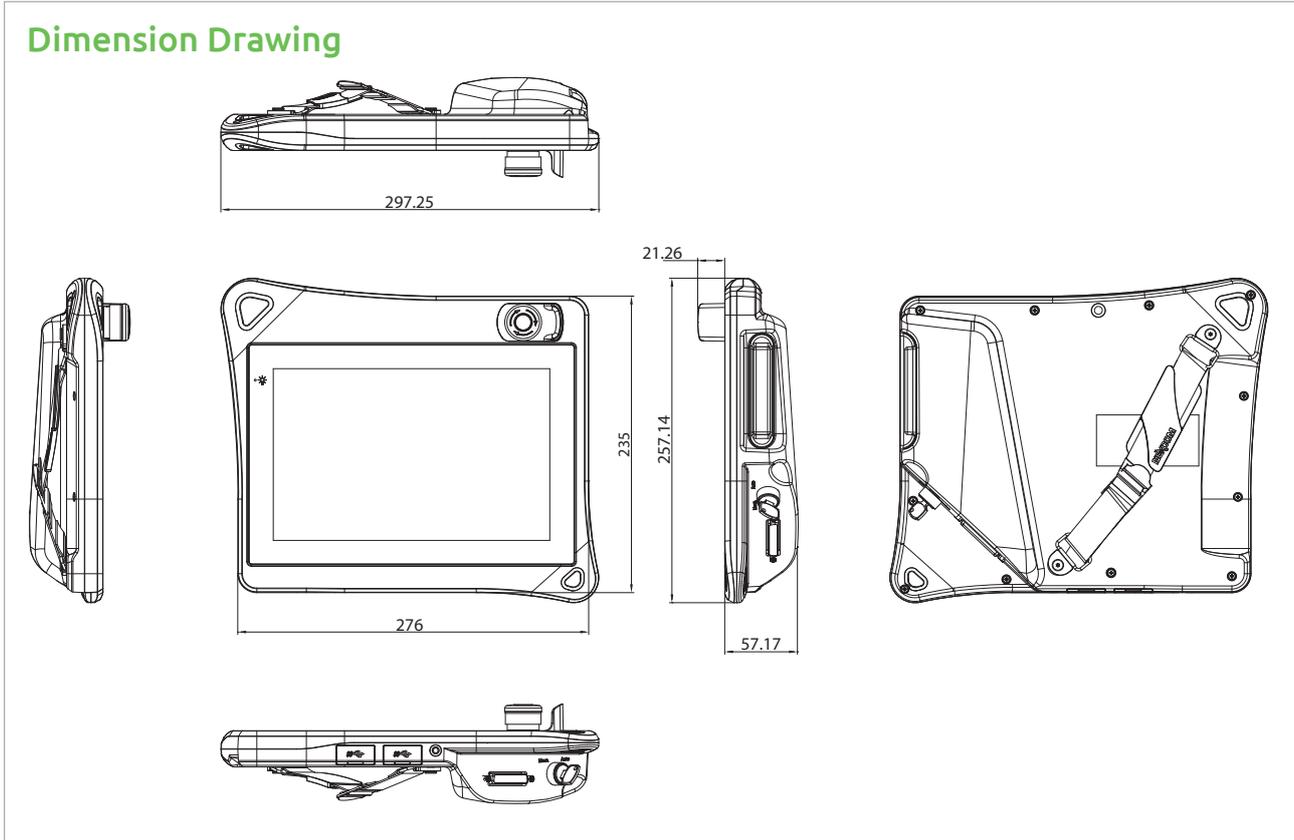
## Product Overview

TP-100 is a handheld operating teach pendant features an ergonomic housing with a safety elements, 10.1" WXGA resolution panel, multi-touch P-Cap touch and high performance Intel Atom® processor computer. The handheld control unit is greatest comfortable to used and also support left-hander with optional shoulder strap.

## Specifications

Technical Data	TP-100	Technical Data	TP-100
Panel	<ul style="list-style-type: none"> <li>- 10.1", 16:10, WXGA, 1280 x 800</li> <li>- Luminance: 500cd/m<sup>2</sup></li> <li>- Contrast ratio: 800:1</li> <li>- LCD color: 16.7M</li> <li>- Viewing angle: 85 (U), 85 (D), 85 (L), 85 (R)</li> <li>- Backlight: LED</li> </ul>	Interface	<ul style="list-style-type: none"> <li>- Data back-up: 2 x USB 3.0</li> <li>- Control connector: HDB-44 Female                             <ul style="list-style-type: none"> <li>› Removable HDB-44 Control Cable (optional)</li> <li>› Including power, E-stop buttons, deadman switch, key switch and Giga LAN signals</li> </ul> </li> </ul>
Touch	<ul style="list-style-type: none"> <li>- Touch: 5 points P-Cap</li> <li>- Touch light transmission: 87%</li> <li>- Touch interface: USB</li> <li>- Anti-scratch surface: 7H hardness</li> </ul>	Ratings	<ul style="list-style-type: none"> <li>- Power supply voltage: 24 Vdc (19.2 to 28.8 Vdc)</li> <li>- Current consumption: 0.76A at 24Vdc (max.)</li> </ul>
Safety Elements	<ul style="list-style-type: none"> <li>- Emergency stop button (2 NC channels, B10d=130,000)                             <ul style="list-style-type: none"> <li>› Contact function: latching</li> <li>› Reset: by rotating</li> </ul> </li> <li>- 3-position deadman switch (3 channels 2 NO &amp; 1 NC, B10d=100,000)</li> </ul>	Mechanical	<ul style="list-style-type: none"> <li>- Dimension: 297.3 x 257.2 x 57.2 mm (78.5mm including E-stop button)</li> <li>- Weight (without external control cable): 1.45Kg</li> <li>- Front bezel: aluminum magnesium alloy; color: Pantone 8424C</li> <li>- Back cover: ABS+PC; color: Pantone 432C</li> <li>- IP protection class: Full IP65</li> </ul>
Operating Elements	<ul style="list-style-type: none"> <li>- 2-position key switch (2 channels)</li> </ul>	Environment	<ul style="list-style-type: none"> <li>- Operating temperature: 0°C to 45°C</li> <li>- Storage temperature: -20°C to 75°C</li> <li>- Operating humidity: 5%~90% relative humidity, non-condensing</li> <li>- Vibration resistance/shock-proof/free-fall according to EN 61131-2</li> </ul>
System	<ul style="list-style-type: none"> <li>- Processor: Intel Atom® E3826</li> <li>- Memory: 32GB eMMC</li> <li>- RAM: 4GB DDR3L Full IP65 protection</li> <li>- Communication interface:                             <ul style="list-style-type: none"> <li>› Ethernet 10/100/1000 Mbit/s</li> <li>› LAN chip: dual Intel® I210IT Gigabit LAN</li> </ul> </li> <li>- Expansion: 1 x mini-PCIe sockets (support optional Wi-Fi/NVRAM/mSATA storage)</li> <li>- 5MP camera</li> <li>- OS support list: Windows 8.1 32/64-bit, Windows 7 32/64-bit</li> </ul>	Certifications	<ul style="list-style-type: none"> <li>- CE (Emission EN61000-6-4; Immunity EN61000-6-2 for installation in industrial environments)</li> <li>- FCC Class A</li> </ul>

## Dimension Drawing



## Function and Ergonomic Design

5MP camera

Deadman switch

Finger holding point for being comfortable

Manual/ auto. 2 segment key switch

HDB-44 external control cable connector



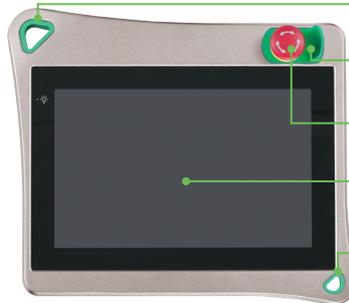
Holes for optional shoulder strap

Protect cover

Emergency stop button

10.1" P-Cap touch

Holes for optional shoulder strap



## HDB-44 Pin Definition

44-Pin	Function	44-Pin	Function	44-Pin	Function	44-Pin	Function
1	Shielding	12	DS_NO_2-A	23	LAN_M2_N	34	Shielding
2	DC Power+	13	DS_NO_2-B	24	LAN_M3_N	35	LAN_M0_P
3	DC Power-	14	DS_NC_3-A	25	RESERVED	36	LAN_M1_P
4	ES_NC_1-A	15	DS_NC_3-B	26	RESERVED	37	LAN_M2_P
5	ES_NC_1-B	16	KS_NC_1-A	27	RESERVED	38	LAN_M3_P
6	ES_NC_2-A	17	KS_NC_1-B	28	RESERVED	39	RESERVED
7	ES_NC_2-B	18	KS_NC_2-A	29	RESERVED	40	RESERVED
8	RESERVED	19	KS_NC_2-B	30	RESERVED	41	RESERVED
9	RESERVED	20	RESERVED	31	RESERVED	42	RESERVED
10	DS_NO_1-A	21	LAN_M0_N	32	RESERVED	43	RESERVED
11	DS_NO_1-B	22	LAN_M1_N	33	Shielding	44	RESERVED

## Ordering Information

### Barebone

- **TP-100 (P/N: 10IH0010003X0)**

10.1" 16:10 WXGA P-Cap multi-touch teach pendant, PC embedded, Intel Atom® Dual Core E3826