

# Industrial Terminals MES9000 series Versatile and robust terminals for manufacturing environments

NEW



## Industrial Terminals **Modern HMI for Manufacturing Execution Systems (MES)**

The new industrial terminal series MES9000 is the ideal HMI solution for numerous applications in the manufacturing environment. Whether for the manual collection of operating/order data via multi-touch full-HD display or for the automatic acquisition of machine and process data via a large number of interfaces and transmission protocols - the step towards transparent digitized manufacturing has never been easier. Thanks to strong performance, even demanding software applications can be executed smoothly.



Industrial Terminals MES9000 series

## HIGHLIGHTS

- **Elegant, high-quality design in three inch sizes**
- **Connection via VESA100 or support arm**
- **Available with integrated DC or AC power supply unit**
- **IP65 accessory kit for an allround protected housing**

### Wide range of applications **For a modern manufacturing**

- Mounting on machines or plants for visualisation & operation
- Machine/operating data acquisition with user-friendly multi touch screen and numerous interfaces
- Paperless manufacturing for more efficient production processes
- Can also be used in harsh manufacturing environments thanks to all-round water- and dust-proof housing and robust front panel

### Strong performance **For stringent requirements**

- Latest 8th-generation Intel® Celeron® and Intel® Core™ processors (Whiskey Lake)
- Fast memory with up to 32 GB DDR4 RAM
- Up to 512 GB Flash SSD mass storage, optionally configurable as RAID

### Big-LinX® IIoT Client **Secure connection for servicing**

- VPN tunnel secured via smartcard (optional software certificate available)
- Includes X-Remote for secure image transmission
- Configurable and secure data push for provision and visualisation of remote maintenance or other big data applications
- Keeps software, firmware and BIOS always up-to-date on your devices

### Connectivity **For individual requirements**

- Hilscher netJack module: tool-less integration of various fieldbus and real-time ethernet protocols



- RFID reader behind the glass front: acquisition of personnel data as well as attendance and working time
- Integrated Wi-Fi antennas: connection to the production network even in areas without ethernet connection

**adstec**

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# MES9000 series

## Technical Data

	MES9016	MES9019	MES9024	
<b>Display</b>	Resolution Brightness Contrast ratio Displayable colors	15,6" TFT Full HD 450 Nits (typ.) 800:1 (typ.) max. 16,2 Mio.	18,5" TFT Full HD 500 Nits (typ.) 1000:1 (typ.) max. 16,7 Mio.	23,8" TFT Full HD 250 Nits (typ.) 1000:1 (typ.) max. 16,7 Mio.
<b>Touch</b>	PCAP multi-touch (glove-operated)			
<b>Housing</b>	Die-cast aluminum housing, powder coated			
<b>Cooling</b>	Passive cooling, fanless			
<b>Processor</b>	Intel® Celeron® 4305UE 2,0 GHz dual-core Intel® Core™ i5-8365UE 1,6 GHz quad-core			
<b>RAM</b>	Up to 32 GB DDR4 RAM			
<b>Mass storage</b>	1 x 128 GB M.2 SSD 1 x 256 GB M.2 SSD 2 x 128 GB M.2 SSD, configurable as RAID 2 x 256 GB M.2 SSD, configurable as RAID			
<b>Interfaces</b>	4 x USB 3.1 Gen. 2 3 x Ethernet (10/100/1000 Mbit/s) 1 x DisplayPort++ (1.2) 1 x Smartcard-Reader for ADS-TEC Big-LinX®			
<b>Optional interfaces</b>	1 x Hilscher netJACK-Slot for fieldbusintegration <sup>1</sup> 1 x HDBaseT interface (transmitter) 1 x USB in the front 1 x integrated antenna for Wi-Fi-/Bluetooth module 1 x integrated antenna in the front for RFID module			
<b>Button</b>	1 capacitive ON/OFF button on the front side			
<b>Supply socket &amp; digital I/Os</b>	24 V DC version: 1 x 5-pol. supply with 1 x dig. IN / 1 x dig. OUT 230 V AC version: 1 x 2-pol. supply / 1 x 2-pol. digital IN			
<b>Power supply (integrated power adapter)</b>	24 V DC +/- 20 % 230 V AC			
<b>Operating system</b>	Windows 10 IoT Enterprise 2021 LTSC IGEL Linux			
<b>Fixing</b>	VESA100 sockets in back housing Optional: support arm adapter for mounting on the back housing			
<b>Protection class</b>	IP65 (front) IP65 (back side when using IP65 kit, which can be ordered separately, or when using the mounting arm adapter)			
<b>Operating temperature</b>	0 °C to +40 °C	0 °C to +40 °C	0 °C to +40 °C	
<b>Dimensions in mm (W x H x D)</b>	400 x 270 x 80 mm	465 x 310 x 80 mm	575 x 370 x 80 mm	
<b>Weight (without supplies)</b>	approx. 5,0 kg	approx. 6,0 kg	approx. 8,0 kg	

<sup>1</sup> Profibus, CANopen, DeviceNET, CC-Link, EtherCAT, EtherNet/IP, Modbus, POWERLINK, PROFINET, VARAN, Sercos

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