

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



Industrial IT

MES9000 series

Technical Data

	MES9016	MES9019	MES9024	
Display	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.
Touch	PCAP multi-touch (glove-operated)			
Housing	Die-cast aluminum housing, powder coated			
Cooling	Passive cooling, fanless			
Processor	Intel® Celeron® 4305UE 2,0 GHz dual-core Intel® Core™ i5-8365UE 1,6 GHz quad-core			
RAM	Up to 32 GB DDR4 RAM			
Mass storage	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			
Interfaces	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®			
Optional interfaces	1 x Hilscher netJACK-Slot for fieldbusintegration ¹ 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			
Button	1 capacitive ON/OFF button on the front side			
Supply socket & digital I/Os	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			
Power supply (integrated power adapter)	24 V DC +/- 20 % 230 V AC			
Operating system	Windows 10 IoT Enterprise 2021 LTSC IGEL Linux			
Fixing	VESA100 sockets in back housing Optional: support arm adapter for mounting on the back housing			
Protection class	IP65 (front) IP65 (back side when using IP65 kit, which can be ordered separately, or when using the mounting arm adapter)			
Operating temperature	0 °C to +40 °C	0 °C to +40 °C	0 °C to +40 °C	
Dimensions in mm (W x H x D)	400 x 270 x 80 mm	465 x 310 x 80 mm	575 x 370 x 80 mm	
Weight (without supplies)	approx. 5,0 kg	approx. 6,0 kg	approx. 8,0 kg	

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

