



Industrial Terminals – MES9000 series

Versatile and robust terminals for manufacturing environments

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.



Wide range of applications

- > 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

- > 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

- > 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

- > 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



Technical data

	MES9016	MES9019	MES9024	
Display	Resolution	15.6" TFT Full HD	18.5" TFT Full HD	23.8" TFT Full HD
	Brightness	450 Nits (typ.)	500 Nits (typ.)	250 Nits (typ.)
	Contrast ratio	800:1 (typ.)	1000:1 (typ.)	1000:1 (typ.)
	Displayable colors	max. 16.2 Mio.	max. 16.7 Mio.	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 (incl. detachable 5 meter power supply cable with Schuko plug)			
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

