

Leica MDS10/20/30

Docking station for MCP80

Data sheet



Data storage

The in-cabin mounted Leica MDS docking stations store machine specific data such as calibration values and hydraulic parameters. This enables the operator to use the panel on any other machine without the risk of losing machine data. Furthermore, the docking station handles all cable connections, making the Leica MCP80 panel completely cable-free. Charging of the panel as well as all data transfer happens via infrared link.



Robust design

Its robust design and structure makes the MDS10/20/30 docking station prepared for even the harshest environment. The cast aluminium housing absorbs vibration, thus reducing wear and tear. Rated for IP66 and IP67, the cradle is protected against dust and water penetration – making it a truly resilient cradle for the heavy construction industry.



Customised

With the MDS10, MDS20 and MDS30, Leica Geosystems delivers three variants of docking stations for the MCP80 3D machine control panel, facing customer needs all over the world.

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Leica MDS10/20/30



ENVIRONMENTAL DATA

Water/Dust rating	IP66, IP67
Operation temperature	-30° - 60°C
Storage temperature	-40° - 85°C
Humidity	Damp heat (humidity condensing)* Compliance with IEC60068-2-30
Vibration	IEC 60068-2-6 5-500 Hz; 5 g; ±15 mm MIL-STD-810G, CHG-1 Fig. 514.7E-1: Category 4 Fig. 514.7E-1; Category,24
Shock	IEC 60068-2-27 60 g - 6 msec
Drops	Withstands 40 cm onto hard surfaces

MECHANICAL DATA

Dimensions (H x W x D)	156 x 192 x 64 mm
Weight	0.94 kg
Material	Cast aluminium

COMPLIANCE

CE	2014/53/EU (RED), 2006/42/EC (MD)
FCC	Part 15B, 22, 24, 27, 90
RoHS	2011/65/EU
WEEE	2012/19/EU

STANDARDS

EMC	ISO13309, ISO13766, EN/ISO 14982
Machinery	EN/ISO 12100

ELECTRICAL

CPU	300 MHz TI Sitara
Internal modem	TNC RF connector to cradle to connect to permanent roof antenna 3 x 4G LTE models of cradle available: MDS10 LTE Cat-3 4G/3G/2G module for Europe/Russia/Africa, 4G bands B1, 3, 7, 8, 20 MDS20 LTE Cat-6 4G/3G module for USA/Canada/South America/Europe, 4G Bands B1, 2, 3, 4, 5, 7, 12, 13, 20, 25, 26, 29, 30, 41 MDS30 LTE Cat-6 4G/3G Australia/New Zealand/Japan/Asia, 4G Bands B1, 3, 5, 7, 8, 18, 19, 21, 28, 38, 39, 40, 41
Nominal supply voltage	Min: 10+ VDC Normal operation: 10-36 VDC Max: 36 VDC
Ethernet	1 x M12
CAN	3 x M12 connectors
Serial	2 on 1 x M12 connector, 12V 1.3A output for external radio power
External GPO buttons	2 x 3 M8 connectors
Lock function	Yes

*The effects of condensation are to be effectively counteracted by periodically drying out the product.

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