Leica MCP80
3D Machine Control Panel
Data sheet

One for all

The Leica MCP80 3D machine control panel has one common interface across all 3D machine control applications – meaning that it is interchangeable between any heavy construction machine. Users, from machine control operators to dealers, just need to be trained in one 3D panel.

Robust design

With a robust design and structure, the MCP80 control panel is prepared for the harshest environments. IP66 and IP67 rated, the panel is protected against dust and water penetration – making it a truly resilient control unit for heavy construction. With the in-cabin mounted cradle handling all cable connections, the MCP80 is fully cable-free.

Ease of use

The MCP80 is built with a customer-centred design screen with a 8" full colour touch-screen and backlit buttons. Fixed to the on-cabin mounted Leica MDS10/20/30 cradle via PowerSnap, the operator simply needs to undock the panel after work and place the panel on a safe place which reduces the risk of theft.

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PART OF HEXAGON

Leica MCP80

ENVIRONMENTAL DATA

Water/Dust rating	IP66
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; 5g; ±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 80 cm onto hard surfaces

DISPLAY / MECHANICAL DATA

Dimension W x H x D	262 x 167 x 65 mm
Weight (kg)	1.7 kg
Screen	8" large display
Resolution	800 x 480 pixels
Brightness	1300 cd/m2 / 800:1 typical
Housing	Aluminium casting
PCAP touch	Multitouch 13 buttons Optically bonded, strengthened and anti-reflective coating
Ambient light sensor for LCD backlight and keypad backlight	Yes, 0-100% adjustable
Status indicator LED on panel	Yes (over/under temp./voltage)
Front USB	For software and model uploading and file storage

COMPLIANCE

CE	2014/53/EU (RED), 2006/42/EC (MD)
FCC	Part 15B, 22, 24, 27, 90
RoHs	2011/65/EU RoHS and (EU) 2015/863
WEEE	2012/19/EU

STANDARDS

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

ELECTRICAL

Wifi/BT	Internal + internal antenna
GNSS	Internal + internal antenna
CPU	1.7 GHz Dual Core Intel
RAM	4 GB DDR3L RAM
Flash storage	32 GB eMMC Flash
Battery type	Button cell, manganese silicon lithium, soldered to main PCB in MCP80. Package labelling is not required according to IATA guidelines Part 2 sub-section F and IEC62368-1 section 4.8.1

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

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