P1DME THE SIMPLEST IN-PROCESS SOLUTION FOR ID AND OD MEASUREMENT ON MACHINE TOOL



Description

Production optimization, quality and real time process control are key elements for a successful industrial process. The new Marposs gauge P1dME with Marposs measuring heads represent an economic, compact, practical and reliable solution for grinding machine.

The P1dME when connected to Marposs measuring heads controls the part dimensions during grinding process. It is a flat and compact gauge with cover lens touch screen that can be easily installed on any grinding machine for smooth part control. The new human interface is intuitive in order to make easier the operator daily work.

P1dME is able to withstand the harsh process while being in direct contact with abrasive grit, metallic particles, cutting oils and aggressive coolants.

Benefits

- · Assures part production within the tolerance
- · Helps to optimize the cycle time
- · Helps in assuring and maintaining a constant productivity
- Compensation of the grinding wheel wear

Typical applications

- · Designed for OD, ID grinders for smooth parts
- Marposs analog P1 upgrade





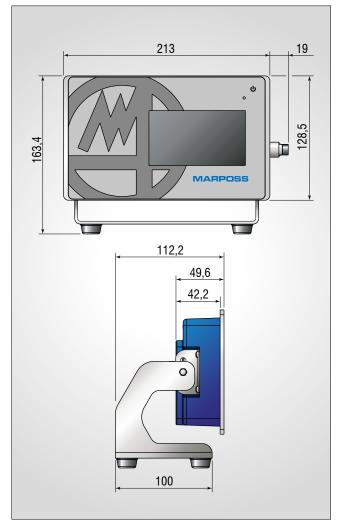
- 🥌 Grinding Line -----

P1dME unit

Flat screen, friendly human interface and sturdiness are P1dME main features. The unit can be installed stand-alone or integrated inside operator panel.



1	4,3" touch screen panel
2	Status LED
3	Power on button
4	Angular position regulator
5	Stand-alone support
6	I/O - Power supply
7	Measuring head connector
8	Service connections

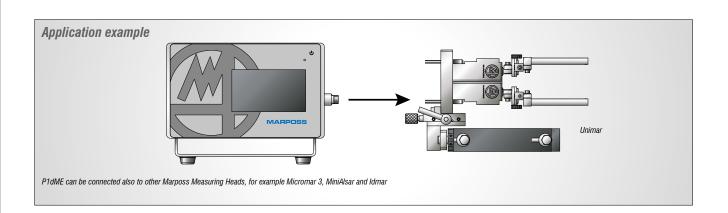


STRUCTURE	Stand alone or rack*
DISPLAY	LCD 4,3" (480 x 272) capacitive
CHANNELS LVDT or HBT Marposs heads	1 or 2 channels
MEASURING CYCLES	In-process grinding control
MEASURING RANGE In-process cycle	According to measuring head: ±250 μm ±500 μm ±1000 μm
POWER SUPPLY On 25 pins Cannon connector	24 Vdc (-15% / +20% with 5% ripple - EN 61131-2)
POWER CONSUMPTION	 8 W w/o retraction option 32 W with retraction option
STATUS LED	On front panel
OPERATING TEMPERATURE	5° ÷ 45° C (41° F ÷ 113° F)
STORAGE TEMPERATURE	-20° ÷ 70° C (-4° F ÷ 158° F)
WEIGHT	1,2 Kg
PROTECTION DEGREES	 Stand alone version: IP40 Rack version: IP40, IP54 frontal Kit IP54 version: IP54 (optional)
MACHINE CNC CONTROL (I/O)	25 pins Cannon connector 24 Vdc optoinsulated
I/O SIGNALS	 Sink or Source Input current 5 mA Output current 100 mA
ELECTRIC SAFETY STANDARDS	EN 61010-1
EMC STANDARDS	EN 61326-1
(*) = Frame dimensions: 114 (h) x 202 (l) m	IM

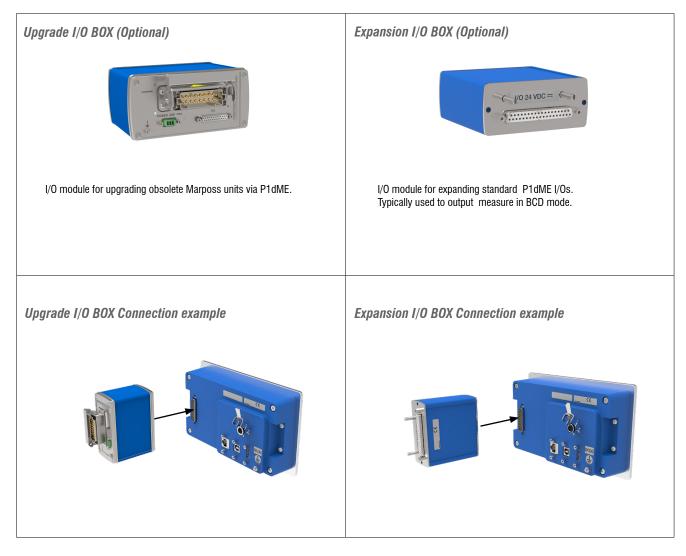
(*) = Frame dimensions: 114 (h) x 202 (l) mm







Accessories





For a full list of address locations, please consult the Marposs official website

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