





The M2 and the 2014' new M3 are designed to make dimensional control from 1 or 2 probes.

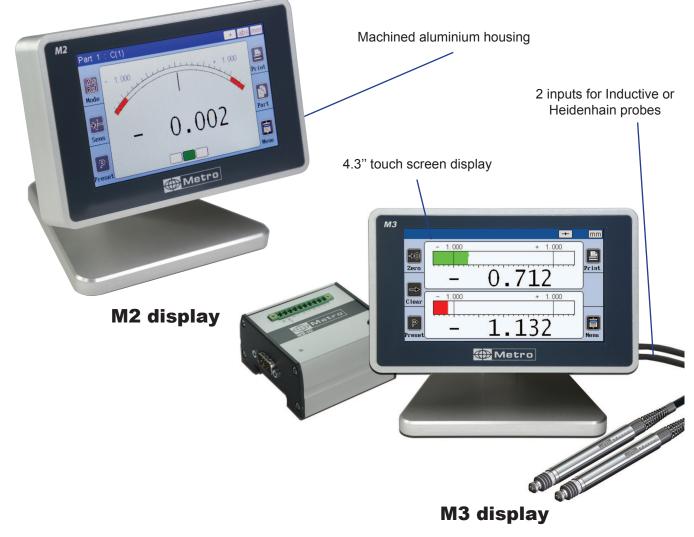
It is possible to connect the following types of probes :

- Inductive HB or LVDT probes : Metro, Tesa, Mahr, Peter Hirt etc.

- Incremental probes and scales : Heidenhain (1Vpp ,11µA or TTL signal), Magnescale (through adaptor), Mitutoyo LG (through adaptor)

Measurements and results are displayed very clearly on a 4.3" touch screen display. Thanks to a user friendly interface, the M2 and M3 are a device that will be immediately adopted by every operator.

The enclosure is machined in a solid aluminium block and offers an incomparable robustness, even when used in the most severe industrial environments.



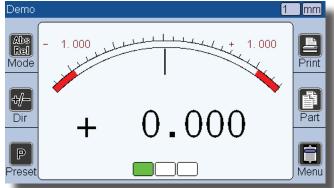
Compatible probes

Several versions of M2 and M3 offers the possibility to connect most of the brands of probes and scales : Heidenhain (Specto, Metro, Certo, and scales), Mahr type P2004M or 1300, Tesa type GT21, Metro type M802, Peter Hirt, Pretec, Mitutoyo LG, Magnescale DK...

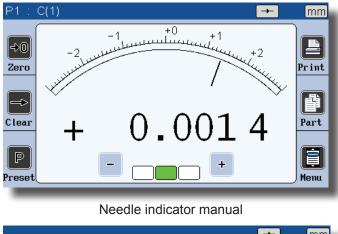


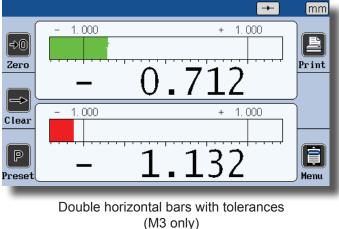
The M2 and M3 are equipped with a 4.3" touch screen display which allows an easy configuration with a user friendly interface.

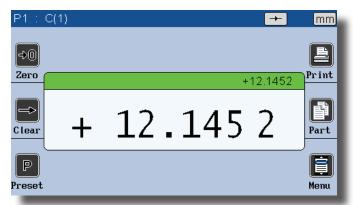
Several display modes with 1 or 2 characteristics are available. Bellow are some examples of screens :



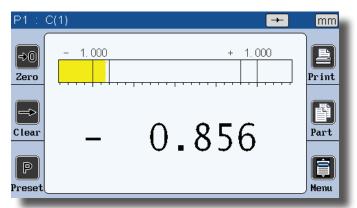
Needle indicator automatic



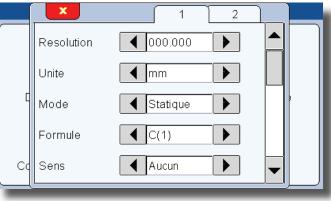




Display mode without tolerances (M3 only)



Display mode with warning (M3 only)



Configuration menus

Optional module with 8 optocoupled I/O

On the M3, it is possible to connect a MB-IO M-bus module fitted with 8 inputs/ outputs isolated by opto-couplers. The following functions are then added:

- Part 1 or 2 : Go/NoGo
- Calibration/Preset
- Start dynamic measurement
- Measurement transfer
- Zero
- Switch from part 1 to part 2
- Stop

The I/O module is made of extruded aluminium and is designed to be mounted on a standard DIN rail.



Functions

M2 and M3 common functions:

- Nominal dimension, Tolerance limits, Dimension of the master part
- Calculation formula : C(1), C(2), C(1)-C(2)... "C" meaning Channel
- Calibration
- Direct (static) measurement
- Display mode with needle automatic or manual
- Display locking with administrator password, possibility to hide icons for a very simple interface
- Display resolution (from 2 to 5 decimals)
- Metric or imperial measurements (mm or inches)
- Selection between 2 measurement characteristics (2 dimensions)
- Automatic switch of measurement characteristic by moving a probe
- Different languages installed. New languages can be installed upon request
- RS232 ouput for measurement reading and display configuration
- USB device class for using the M2 or M3 as a virtual keyboard on a computer
- Absolute or relative measurement

M3 only :

- Display mode with 2 characteristics
- · Display mode without tolerance and direct modification of preset value
- Display mode with coloured horizontal bars (1 or 2 characteristic on the same screen)
- Dynamic measurement : Max, Min, Max-Min, Average, Median
- · Possibility to display warnings (yellow indicator) when the value is close to the tolerance limits
- Optional external I/O module : GO/NOGO part 1 & 2 Preset, Measurement transfert, Start dynamic measurement...
- Possibility to sort parts, up to 16 classes

USB keyboard configuration

The easiest way to transfer your measurements to a PC !



The M2 and M3 hardware are configured as a USB keyboard. When the M2 or M3 is connected to a computer with USB, it is automatically detected as an additional keyboard, the USB also powers the M2/M3.

It means that when the operator transfers the measurement, the values appears on the PC like if they would have been typed with a keyboard. Works everywhere (Excel, SPC softwares, ERP, etc.) on any operating system (Windows, Linux...). No need to install a special software or any specific driver.

Product references

Item	Reference M2	Reference M3
Display with 2 inputs for Metro inductive probes	15010	13010
Display with 2 inputs for Tesa compatible inductive probes	1501T	1301T
Display with 2 inputs for Heidenhain probes (sinewave $11\mu A$ or $1Vpp$ signal)	15020	13020
Display with 2 inputs for Mahr inductive probes	1501M	1301M
Display with 2 inputs for Heidenhain probes (TTL signal). Works also with Mitu- toyo LG and Magnescale DK probes with an adapter (ref 24062).	15000	13000



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