



# MultiVision

Electronic comparator for gauging probes





The electronic comparator MultiVision is designed to realize dimensional control from 1 to 31 probes.

The MultiVision is universal (different probe's technologies supported) and powerful (up to 10 measurement characteristics, trigonometrical calculation, up to 8 characteristics simultaneously...)

Thanks to its intuitive menus and its general simplicity the MultiVision is a device that will be immediately adopted by every operator.

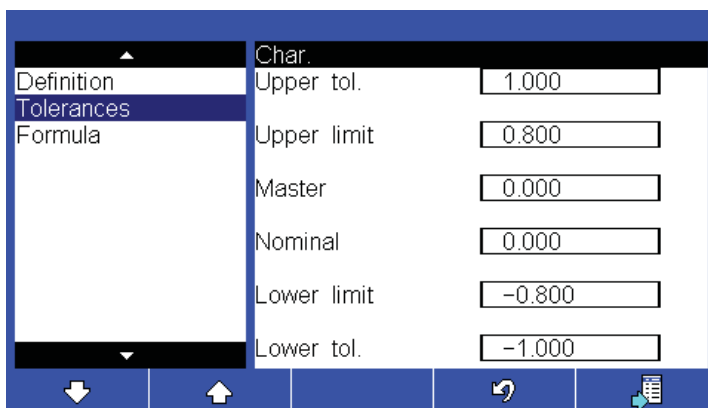


### Graphic color display

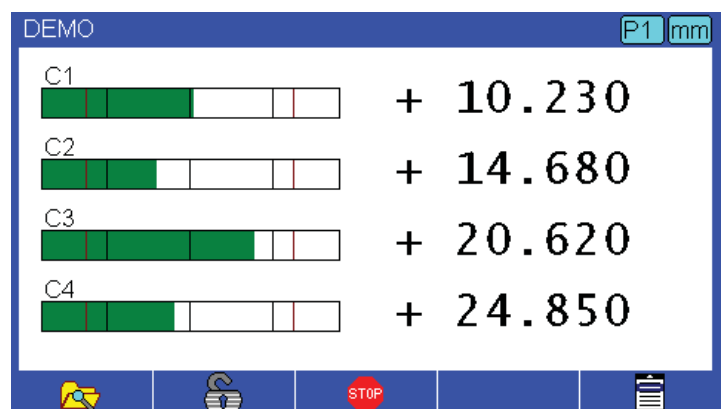
The electronic comparator MultiVision is equipped with a 4.3" TFT color display which allows an easy configuration thanks to its drop down menus, its icons and functions buttons.

The measurement is displayed digitally and with 2 types of bargraph.

3 colored indicators or an analogue display indicates the measurement against the tolerances limits.



Configuration screen



Dimension measurements

### Compatible probes

One of the advantage of the MultiVision is its compatibility with different technologies of probe :

- Inductive (Metro, Tesa compatible , Mahr)
- Incremental linear encoders (Metro, Heidenhain)
- Digital (Metro)
- Capacitive (Sylvac - under development)

Thanks to its M-bus connector it is possible to connect probes extension' s boxes and to mix different technologies of probes (see M-bus description on page 4)

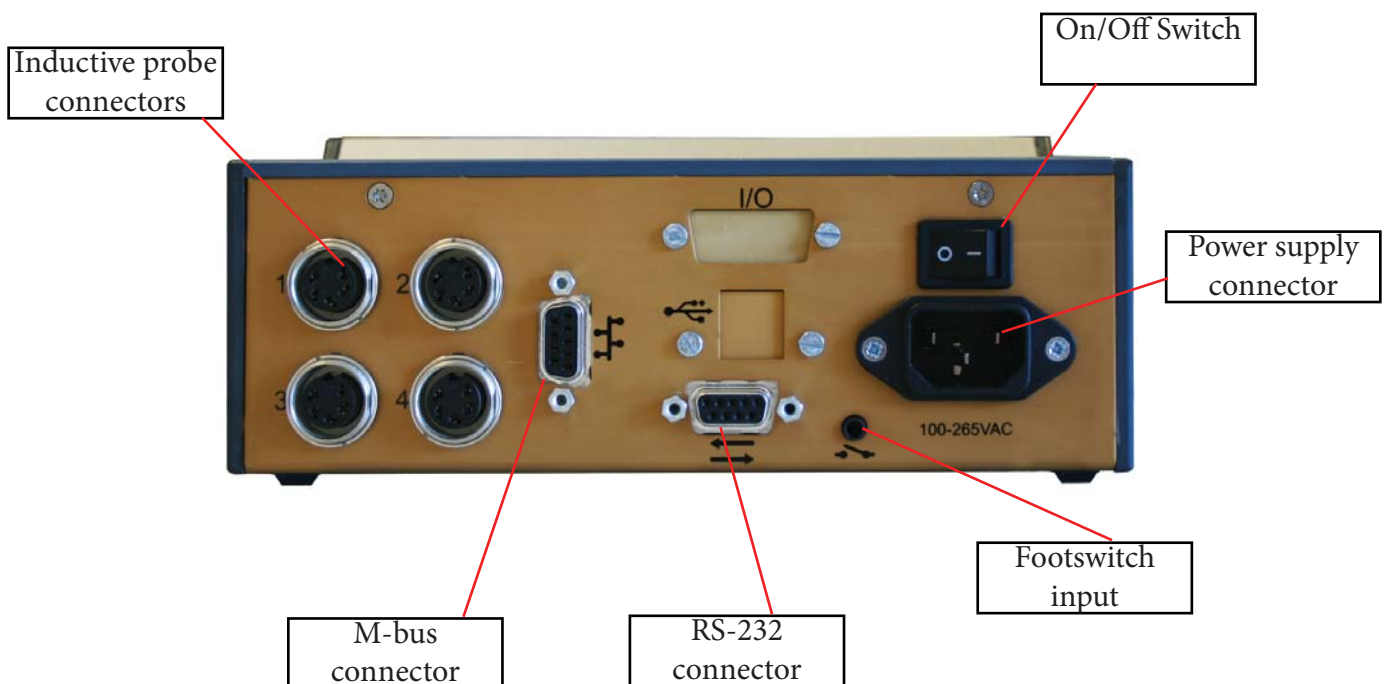
## Functions

Many functions can be selected with the keyboard or by remote control through the RS 232 port:

- Nominal dimension, tolerance limits , dimension of the master part (reference piece)
- Measurement and display of 8 measurement characteristics simultaneously
- Calculation formula
- Calibration mode and calibration checking
- Duration of validity of the calibration
- Keyboard locking
- Measuring mode (maxi-mini, maxi, mini, average, median).
- Display resolution (2 to 5 decimals)
- Metric or imperial measurements (mm or inches)
- Measurement hold
- Choice between 10 measurement configurations (10 characteristics) - 40 in option
- Sorting of the dimension up to 8 classes
- Automatic change of measurement characteristic by moving a probe
- Measurement on a «V type» setup ( calibration with a min and max master part)
- Different languages installed. New languages can be installed upon request

## Rear view example

Several versions for different technologies of probes are available. The picture below is an example of rear view with the connection facility for 4 inductive probes and 1 M-bus extension.



## Mechanical dimensions



## The M-bus network

The M-bus network has been developed in order to link easily probes and interfaces to measuring devices. This system brings the following improvements :

- The display unit receives digital data from the probes. The transmitted signal is therefore no anymore damaged by the cable length. The digital data are the same not depending of the probe's technology used (inductive, linear encoder...). The display unit is not anymore dedicated to a single technology of probe and it is therefore possible to choose the most adapted technology depending on each measuring case.
- A single cable is used to connect all the probes to the display unit, this greatly simplify the wiring.
- Capacity of 31 probes for the MultiVision
- The M-bus network is able to receive probes individually as well as multi-probes systems.



Example of M-bus configuration

## Product references

Item	Reference
MultiVision for 2 M-Bus probes(extensible to 31)	25200
MultiVision for 4 inductive probes and M-bus extension	25210
MultiVision for 2 Heidenhain linear encoders (TTL / SubD15) and M-Bus extension	25220
MultiVision for 2 Heidenhain linear encoders (11µA / M23) and M-Bus extension	25250
MultiVision for 2 Heidenhain linear encoders (11µA & 1VPP / SubD15) and M-Bus extension	25260
Optional I/O card	25100



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