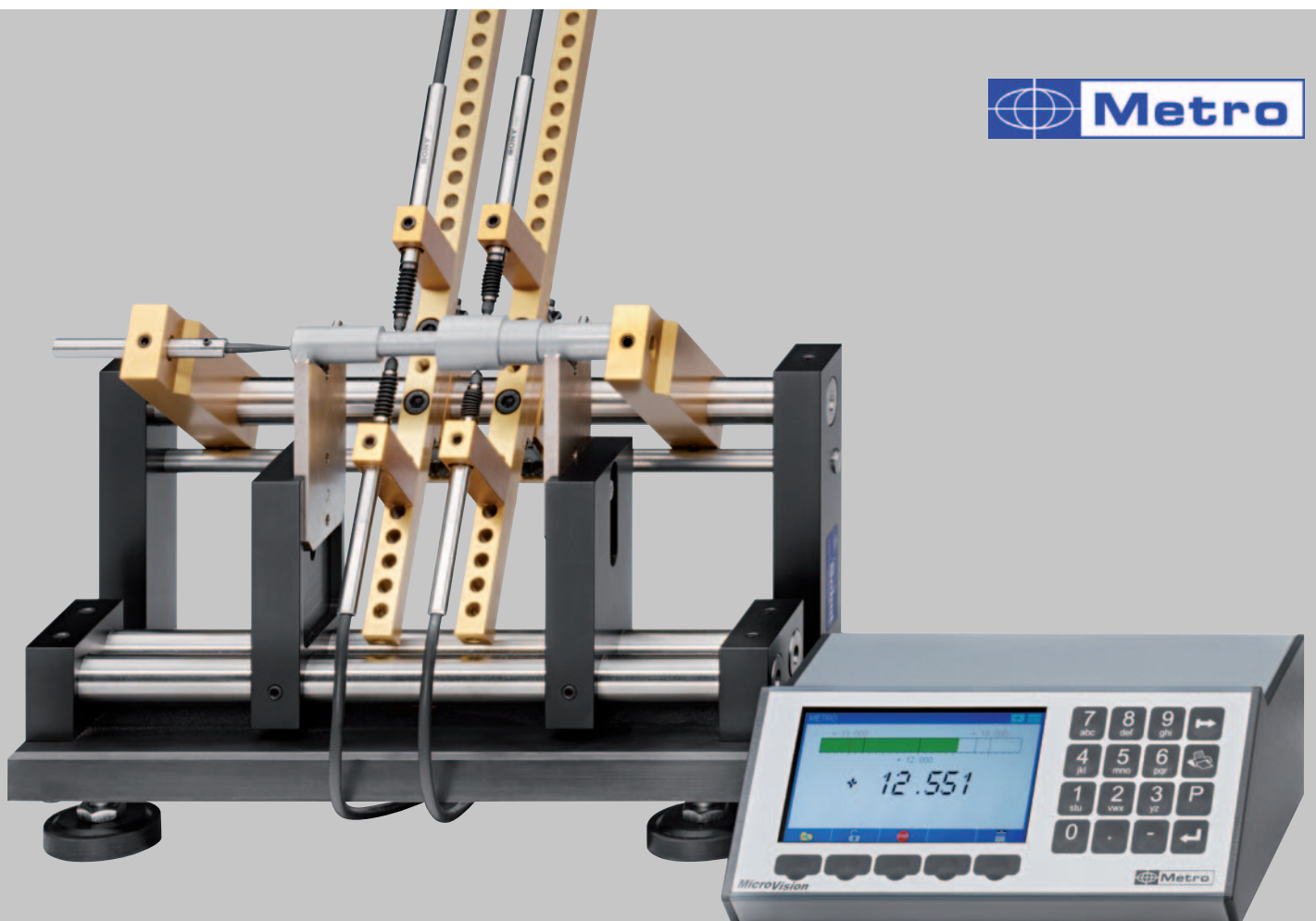


# SONY

like.no.other™

Sony gauges combined with Metro's MicroVision and MultiVision display units for data collection and analysis.

Sony's digital gauges are compact, very robust and precise over the whole measuring stroke. Flexible and effective multi-gauging measuring can be achieved in combination with the Metro display units MicroVision and MultiVision.



like.no.other™

## Sony digital gauges – higher quality and increased profit

Sony digital gauges fulfil the highest expectations for precision and reliability. The incremental encoder principle ensures high accuracy over the whole measuring stroke.

- Long travel range combined with high resolution and high accuracy
- Very good long-term stability and minimal temperature drift
- Robust and compact design

### DK Series – Slim type

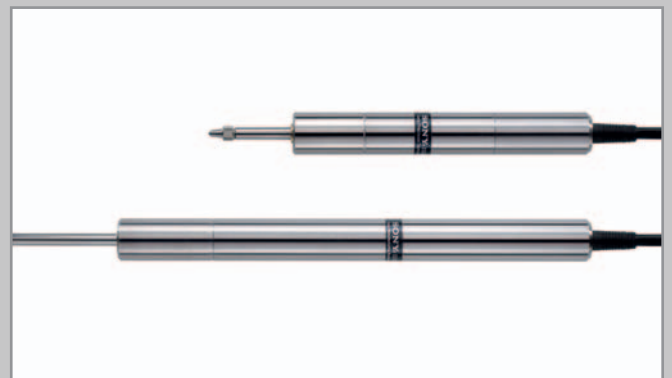
- Magnetic principle
- Measuring range 2/5/12 mm
- Resolution 0.1  $\mu\text{m}$  / 0.5  $\mu\text{m}$
- Accuracy  $\pm 0.5 \mu\text{m}$  /  $\pm 0.8 \mu\text{m}$
- Response speed 80 – 250 m/min
- Reference marks one
- Plunger actuation spring type or pneumatic push type
- Protective grade IP66

More than 40 years experience demonstrates that the high manufacturing quality and precision of Sony measuring systems increases the quality of your production output and the productivity of your manufacturing plant.



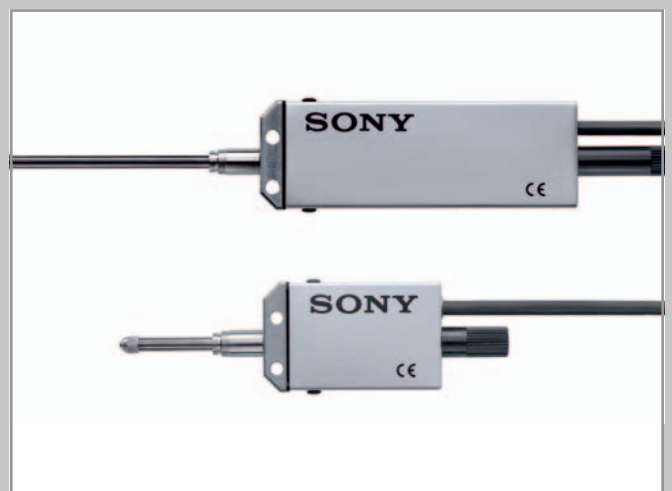
### DK Series – Robust type\*

- Magnetic principle
- Measuring range 10/25/50/100 mm
- Max. resolution 0.5  $\mu\text{m}$
- Accuracy  $\pm 1 \mu\text{m}$  /  $\pm 2 \mu\text{m}$
- Max. response speed 250 m/min
- Reference marks one
- Plunger actuation spring type
- Air lifter assembly optional
- Protective grade IP64



### DT Series

- Magnetic principle
- Measuring range 12/32 mm
- Max. resolution 1  $\mu\text{m}$
- Accuracy  $\pm 3 \mu\text{m}$  /  $\pm 5 \mu\text{m}$
- Max. response speed 90 m/min
- Plunger actuation spring type or pneumatic push type
- Connectable to MicroVision via adaptor MT13\*
- Protective grade IP64



\*available from May/June 2008

For further information about Sony products and their technical specifications, please refer to our Sony Gauge Catalogue.

## MicroVision and MultiVision display units

The new digital display units MicroVision (single measurement) and MultiVision (up to 4 measurements) were designed by Metro in France.

They are equipped with a wide 16/9 format TFT colour graphic screen which allows easy and precise configuration of the apparatus with scrolling menus, icons and function keys in different user languages. The internal memory can store up to 50 different configurations. The rear 4 input channels allow the direct connection of Sony gauges (DK and DT Series). With the help of the Metro Universal Bus (MU-BUS) it is possible to increase the number of ports up to 31 (i.e. for additional Sony gauges, instruments, etc.). These inputs can be combined with mathematical formulas in order to display complex results such as parallelism or flatness.

An auto-select function enables users to execute a configuration just by probe movement.

### Two optional cards can be added:

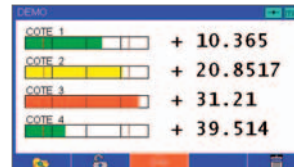
- I/O card for PLC connection with **12 opto-isolated outputs** (8 for classification and 4 for limits and tolerances) and **4 inputs** (controlling functions such as data transfer, hold trigger, etc.)
- Statistical card to add two USB host ports (mass storage and PCL printers) and memory to store up to 16000 measurements. The internal software provides statistical results like histograms, individual measure graphs and numerical results such as Cm, Cmk, etc. These results can be exported to a USB hard drive or USB-stick in CSV format which is also compatible with the Q-DAS® ASCII transfer format<sup>(1)</sup>.



<sup>(1)</sup> Q-DAS® is a registered trade mark of Q-DAS® GmbH & Co. KG

## Features

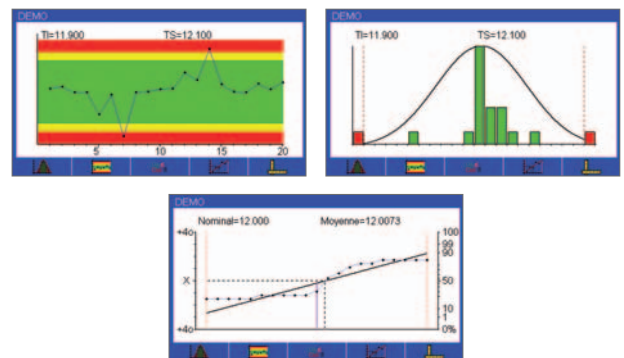
- Wide 16/9 format TFT colour graphic screen
- Universal power input (85 – 265 VAC / 50 – 60 Hz)
- “Green product” (RoHS conform)
- Overspeed probe detection
- Static and dynamic measurements:  
Min, max, max-min, average and median
- Numerical and colour bar meter
- Up to 50 measurement configurations
- Multi-language interface
- Optional trigonometrical calculations
- Configuration protection by password
- 1 or 2 master definitions
- mm or inch unit
- Resolution of measurement from 1 to 5 decimals
- Classification with up to 8 user defined classes
- Auto selection of configuration by probe movement
- Mastering functions
- Master demand after time period
- Continued measurement or by trigger input
- Multifunction footswitch input
- RS232C interface
- 2 optional USB host ports for mass storage and PCL®5e printer
- Statistical functions are displayed in graphic form (Histogram etc.)



Measuring screen



Configuration screens



Statistical screens (individual values and histogram)



## Gauges

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## Display unit

### Metro

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E-Mail : info@metro-fr.com  
www.metro-fr.com