SONY

Sony gauges combined with IBR measuring bus and software for data collection and analysis

Sony's new 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 IBR measuring bus and software for data collection and analysis.

like.no.other™



SONY

Sony digital gauges higher quality and increased profit

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

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

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

Magnetic principle

 Measuring range 2/12 mm

Resolution 0,1 µm

Accuracy $\pm 0.5 \, \mu m$

Max. response speed 42 m/min

Reference marks

Plunger actuation Spring type or pneumatic push type

Protective grade **IP66**



DG-M Series

Magnetic principle

Measuring range 10/25/50/100 mm

Max. resolution

Accuracy

Max. response speed

Plunger actuation

Air lifter assembly



DT Series

Magnetic principle

Protective grade

Measuring range 12/32 mm

Max. resolution 5 µm

Accuracy $\pm 5 \, \mu m$

Max. response speed 60 m/min

Spring type or pneumatic push type Plunger actuation

Connectable to IMBus via adaptor MT11

Protective grade **IP64**



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



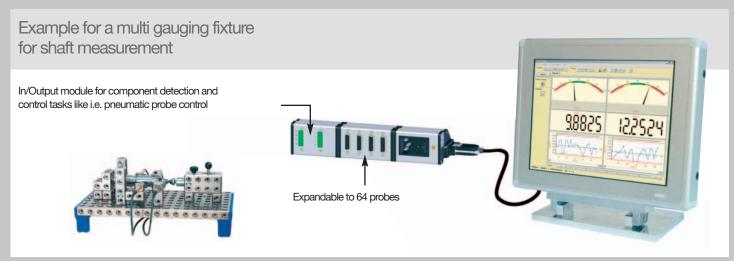
IMBus: Modulare measuring bus for connecting probes, sensors and gauges

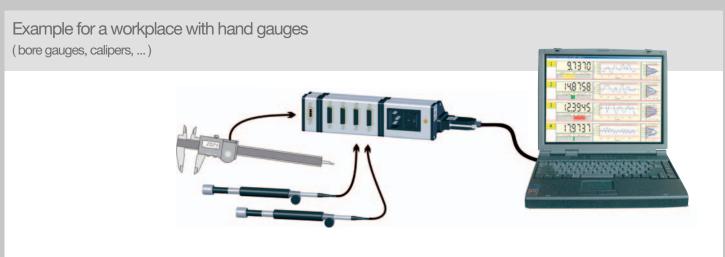
The IBR Measuring Bus (IMBus) is a new series of measuring modules and in-/output modules with high flexibility and for high demands in industrial environments.

The specially developed module case is very robust and can be mounted without tools. The modules can be placed on a table or can be clicked on mounting rails. The electronics satisfies all demands from practise regarding speed, resolution and measuring accuracy. The address setting in IMBus occurs automatically (Plug & Play). The modulare structure and the possibility to connect the modules via cables with a maximum length of 1200 m, allow an universal usage.

A complete range of software for simple applications up to complex measuring applications with control sequences complete the new IMBus series to an universal tool for measuring data collection, analysis and display.









Software for the metrology and SPC in the production

ComGage

ComGage is a software for the metrology and statistical process control in the production. It is suitable for simple displaying of measured values up to complex measuring applications with control sequences as well as for testing components with several characteristics in small and large series. With statistical functions the software delivers additionally information for the control of production processes.

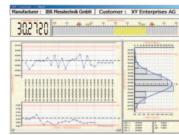
ComGage can be used on computers with Windows 95 ... XP as well as on compact PocketPCs (PDA's) with WinCE. This allows that ComGage can cover all applications on stationary and mobile data collection.

Features

- Test orders for the order depended data collection and analysis
- Parallel starting of several test orders for the data collection on several production lines
- Test schemes as instructions for the component measuring and analysis
- For each component up to 128 characteristics can be defined
- Unlimited definition of gauges supported by arithmetical and trigometrical functions
- Measurement modes for the static and dynamic data collection
- Automatic and manual measurement data transfer and storing
- Free definition of different measurement displays (numeric displays, column displays and analogue meters)
- Statistical trend and analysis displays, like i.e. run charts, control charts, histograms and statistical data
- Complex control applications over digital inputs and digital outputs (opto couplers, relais, ...)
- Automatic Zero adjustment of gauges
- Automatic Calibration of gauges (air gauging)
- Saving of reference information, i.e. operator, test equipment, ... in addition to the measured values
- Conversion of measured values in different formats (QS-Stat, Excel, ...)
- European and Asian languages
- Complete control by keyboard also without mouse
- Runable under Windows 95...XP, Windows CE and Linux



Programming of display window



Measuring mode



Windows for programming the different measuring display elements



Windows for programming the different SPC display elements

Gauges

Sony Manufacturing Systems Europe Semiconductor & Electronic Solutions

Hedelfinger Str. 61 · 70327 Stuttgart, Germany
Tel.: +49 (0) 711 / 58 58 - 777 · Fax: +49 (0) 711 / 58 07 15
E-Mail: smse-mp@eu.sony.com · www.sonymanufacturing.com

Measuring data collection

IBR-Messtechnik GmbH & Co. KG

Kirchstrasse 20 · 36166 Haunetal, Germany Tel.: 06673 919180 · Fax: 06673 919185 E-Mail: info@IBRit.com · www.IBRit.com