

IMS measuring probe series

IMS probe - a new generation of inductive measuring probes with integrated signal processing and digital interface.

The new IMS measuring probes are based on the reliable clearance-free ball bearings and the robust inductive measuring principle. But the sensible and sensitive analogue measuring signals are no longer transferred out of the case of the measuring probe via cables and then measured externally by electronics, instead they are processed and digitised directly inside the IMS measuring probes. An innovative measuring principle and highly integrated electronics make this milestone of new generation IMS measuring probes possible.

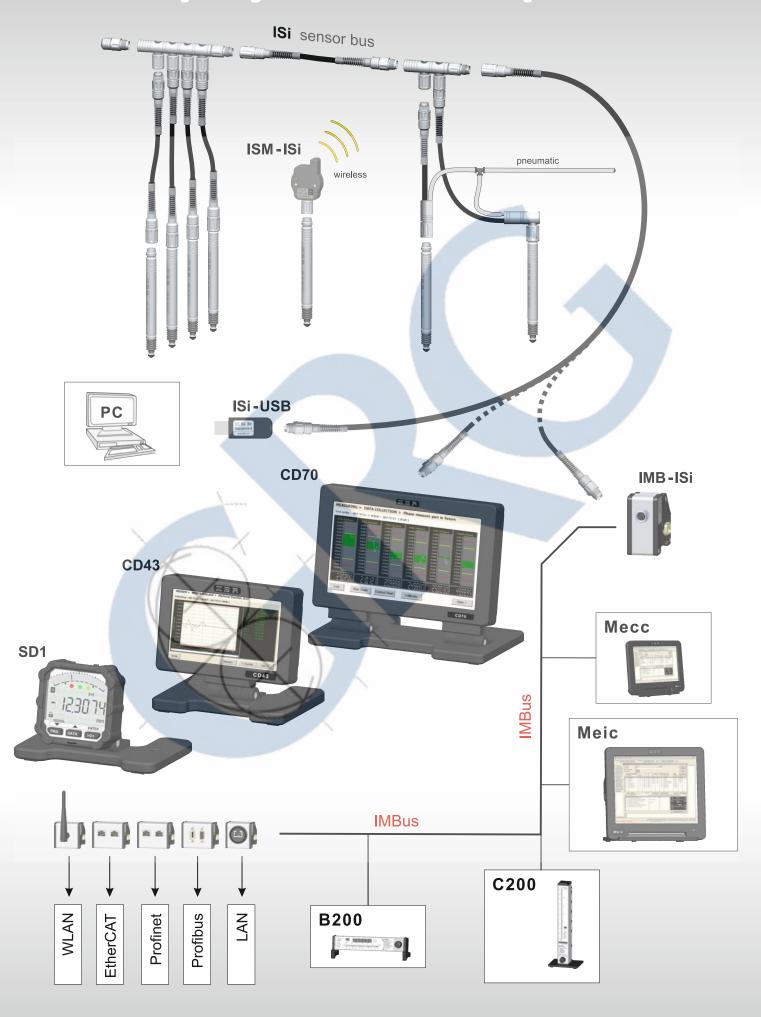
Comparison of ind. probes old new Technical data: **Standard** IMS **Mechanical characteristics** Compact tube case, stainless steel 8h6 High protection class for rough environments Clearance-free ball bearing for precise mea. Gauge spindle Ø 4, gauge slide M2.5 Actuation by spring, vacuum, compressed air Cable pluggable at measuring probe for (rarely) simple mounting / exchange on fixtures Simple extension of cables without influence on measuring values Bus cables for drastic reduction of connection cables and wiring Characteristics of integrated electronics Optimal stable sensor signals without influence by cable / external interferences Individual error correction of each probe 0.3...0.6 < 0.05 Adjustment tolerance of sensitivity [%] < 24 Max. linearity error (+/- 2 mm) [µm] < 1 100 20 Temperature drift [ppm/°C] No errors by external measuring electronics Integrated temperature measurement provides temperature of measuring probe / fixture Simple wiring with ISi connection adapters and pluggable ISi extension cables to a bus with up to 60 probes / sensors (ISi bus) Identification of IMS measuring probes: Type, serial number, ..., next date of inspection can be requested directly from the probe

Technical data :	Measuring probe IMS-5S

Metrological characteristics		
Measuring range	5 mm	
Resolution	0.1 μm, optional 0.01 μm	
Accuracy	< 1 µm	
Measuring rate	1500 measuring values / sec (0.1 μm)	
Measuring force	0.7 N / (optional 0.4 2.0 N)	
Electrical characteristics		
Supply voltage	2.7 3.6 V	
Power consumption	2.8 µA / measurement per second	
Characteristics of integrated temperature sensor		
Measuring range	-20 °C 80 °C	
Resolution	0.25 °C	
Accuracy	+/- 1.5 °C	
Environmental conditions		
Operation / Storage temp.	+32 +122 °F / -4 +158 °F	

Type	Article
/IS-5S	IMS measuring probe, 5 mm measuring range, spring pushed / vacuum lifting
	[]][]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
/IS- 5P	IMS measuring probe, 5 mm measuring range, pneumatically pushed
	IIII IER (MS-59 000217)
i-cca	ISi connection cable, axial
i-ccap	ISi connection cable, axial, pneumatic
Si-ccr	ISi connection cable, radial
NI e e	ISi connection cable readial procuredia
Si-ccrp	ISi connection cable, radial, pneumatic
i-ca1	ISi connection adapter, single
i-ca2	ISi connection adapter, double
Si-ca4	ISi connection adapter, quadruple
	Dead Dead Dead
i-USB	ISi connection adapter for USB
SM-ISi	ISi radio module for ISM band
SLE-ISi	ISi radio module for Bluetooth BLE

Capability of connection for IMS probes



SD1 universal sensor display

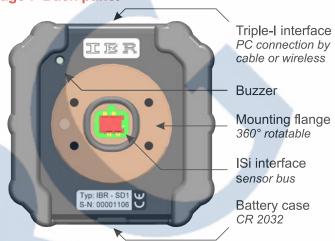
The sensor display unit SD1 was especially developed for industrial use. The robust aluminium case with rubber shock protection as well as a high protection class allow usage in rough manufacturing environment. The display is rotatable, a numeric display shows the measuring values with high resolution and an analogue display with coloured LEDs presents clearly the tolerance status of the component.

The sensor display SD1 features a large scope of operation and can be configured freely for the particular application as required by a windows software. Thereby functions can be removed or activated and settings can be preset.

Image: Front panel



Image: Back panel



Technical data:

Mechanical characteristics		
Case	Aluminium, rubber shock protection	
Front plane	Acryl glass (scratch-proof coated)	
Dimensions / Weight	(WxHxD) 60 x 59.5 x 21.7 mm / 95 g	
Electrical characteristic		
Power supply	Battery (CR2032)	
Battery lifetime	approx. 8000 h (SD1 incl. probe)	
Measuring rate	adjustable, 2 20 values / sec	
	LCD display	
Display type	Liquid crystal display, reflective	
Numeric display	7 digits (10.5 mm)	
Analogue display	53 segments	
	LEDs / Acoustical output	
Tolerance display	3 LEDs: 1x red, 1x green, 1x yellow	
Buzzer	Piezo	
Connections		
ISi interface	Bus connection for sensors, hand / foot switch, tolerance adapter,	
Triple-I interface	Connection for IBR radio modules or cable with USB / RS232 interface	
Measuring systems		
Measuring range, resolution, precision, are defined by the		
connected measuring probe or sensor.		
Example : Measuring probe IMS-5S → Range 5mm, Resolution 0.1µm		
Environmental conditions		
	144 1440 °E / 4 1450 °E	
Operation / Storage temp.	+41 +113 °F / -4 +158 °F	

Software functions:

Unit / Measuring direction mm, inch / positive, negative Resolution 0.001 / 0.0001 / optional 0.00001 mm Measuring inputs Number 2 Combination by factors ±0.001 ±59.999 per measuring input Measuring mode Static measurement Yes / optional Hold mode Dynamic measurement Min, Max, TIR, Mean, Bore Calibration Zero adjustment / Preset with one master Calibration with two masters (gain & offset) Forced calibration by temperature change or elapsed time Tolerance limits / Grading Tolerance type Absolute tolerance limits or nominal size with relative tolerances Number of grades 2 30 Handling and communication Favorite buttons freely definable for each button Hand / foot switch send measuring value, calibrate, Tolerance adapter output tolerance status / grade Triple-I interface measuring value output, programming Password protection for programming / for calibration Configuration of analogue display
Resolution 0.001 / 0.0001 / optional 0.00001 mm Measuring inputs
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Triple-I interface measuring value output, programming Password protection for programming / for calibration
Password protection for programming / for calibration
Configuration of analogue display
Display mode Bargraph / Single segment
Bargraph origin Left / Center / Right
Special features
Windows software for configuration of sensor display SD1

SD1 short operating instruction:



Key function in : Measuring mode		Programming menu	
PRG	Call programming menu	Decrease flashing display (-1)	
> 2 sec.	Freely programmable favorite key	Exit programming menu	
Data transfer Start / Stop dynamic measurement		Increase flashing display (+1)	
> 2 sec. Freely programmable favorite key			
Zero adjustment		ENTER Confirm flashing display	
		Exit menu item	
	•		



Windows configuration software SD1_Win.exe

■ Manufacturer configuration of SD1 functions (Level 1) Factory settings in SD1 Basic functions OK Selection of Unit Cancel V Selection of Resolution 0.0001 V Selection of measuring direction positive Factory settings in SD1 Zeroadjustment / Preset 20.0000 Preset 2-Master calibration 0.0500 Max-Master Temperature forced calibration 3.0 ℃ Timer forced calibration V v Measuring inputs Programmable: Factory settings in SD1 Measuring input A ✓ Measuring input B Measuring modes Factory settings in SD1 ✓ Mean (Max + Min)/2 ✓ TIR (Max-Min) Static Min Max Static re (2 point bore mea.) Grading mode Programmable : Factory settings in SD1 Number of grades V Off Display value on numeric display ✓ Tolerance limits Factory settings in SD1 ogrammable: 20.0000 Nominal size $\ \ \ ^{\bullet}$ Nominal size with relative tolerance limits (e.g. 20 mm +0.02 / -0.01) 0.0500 UT (+Tolerance) C Absolute tolerance limits (e.g. 20.02 mm / 19.99 mm) LT (- Tolerance) -0.0500 Tolerance LEDs Factory settings in SD1 V Exceeding UT Red Undercutting LT Display output time V Analogue display Programmable: Factory settings in SD1 Mode of analogue display Bargraph Origin of analogue display Center Factory settings in SD1 Freeze display on static measurement (hold) V Off Favorite buttons in measuring mode (button pressed for 2 sec) Factory settings in SD1 Programmable: Display switchover: Calibration: 'PRG' button | To Dyn. mode (Min, Max, ...) | Mea. value / grade | Mea. value / grade | Mea. value / temperature | Mea. value / temperature | Mea. value / battery voltage | Unit | Resolution 2-Master calibration Delete zeroadjustment / cal. Delete zeroadjustment / cal. Device control: -Autom. data output on changing of mea. value (on / off) Switch gauge off Autom. data output on changing of mea. value (on / off) >0<' button Switch gauge off + ISi hand / foot switch Factory settings in SD1 V No function Passcodes Programmable: Factory settings in SD1 Passcode for programming menu (4 digits) Off Passcode for calibration (4 digits) V Factory settings in SD1 Special parameters Auto-Power-Off time ✓ 10 minutes V 10 values / second V V 1600 msec Output time of error messages on numeric display ✓ Display value ☐ Min ☐ Max ☐ Grade Data output over Triple-I interface

Menu view on SD1 LCD display

Unit rESoL. dir. PrESEt 2-CAL. dt.-CAL. tF.-CAL. FActor / ProbES SEt. OP. GrAdinG SEt. Pnt. SEt. toL. toL. LED CoL. diS. hoLd but, PRG. but. dAtA. but. CAL. FootS. P.C. ProG. P.C. CAL. Auto.oFF SA.rAtE BEEP

High precision dial gauge SD1 - IB5

The SD1-IB5 is a high precision dial gauge with a free of clearance ball bearing and a linearized, inductive absolute measuring system. The dial gauge was specially designed for industrial use in rough manufacturing environment.

Туре	Article
SD1-IB5	High precision dial gauge, spring pushed
SD1-IB5P	High precision dial gauge, pneumatically pushed
SD1-IB5V	High precision dial gauge with vacuum lifting

Technical data: SD1-IB5

Mechanical characteristics		
Case	Aluminium, rubber shock protection	
Front plane	Acryl glass (scratch-proof coated)	
Dimensions / Weight	(WxHxD) 58 x 111 x 35.5 mm / 192 g	
Electrical characteristics		
Power supply	Battery (CR2032)	
Battery lifetime	approx. 8000 h	
Metrological characteristics		
Measuring range	5 mm	
Resolution	0.1 μm, optional 0.01 μm	
Accuracy	< 1 µm	
Measuring rate	adjustable, 2 20 values / sec	
Measuring force	0.7 N (optional 0.4 2.0 N)	
Environmental conditions		
Operation / Storage temp.	+41 +113 °F / -4 +158 °F	
Protection class	IP65 (CEI / IEC 529)	
EMC according to EN50081 - 2 and EN50082 - 2		



Modular dial gauge SD1-PH1

The SD1-PH1 is a modular dial gauge designed to work with IMS measuring probes.

Туре	Article
SD1-PH1	Modular dial gauge with changeable IMS measuring probe (spring pushed)

Technical data: SD1-PH1

Mechanical characteristics		
Case	Aluminium, rubber shock protection	
Front plane	Acryl glass (scratch-proof coated)	
Dimensions / Weight	(WxHxD) 58 x 111 x 35.9 mm / 165 g	
Electrical characteristics		
Power supply	Battery (CR2032)	
Battery lifetime	approx. 8000 h	
Measuring rate	adjustable, 2 20 values / sec	
Measuring system		
Measuring range, resolution, accuracy, are defined by the		
connected measuring probe or sensor.		
Example : Measuring probe IMS-5S → Range 5mm, Resolution 0.1µm		
Environmental conditions		
Operation / Storage temp.	+41 +113 °F / -4 +158 °F	
Protection class	IP65 (CEI / IEC 529)	
EMC according to EN50081	1 - 2 and EN50082 - 2	



Compact display SD1 - CC1

The SD1-CC1 is a very efficient, powerful display with ISi-Bus interface. Due to the ISi bus, several sensors, foot and hand switches and tolerance adapters can be connected.

Technical data: SD1-CC1

Mechanical characteristics		
Case	Aluminium, rubber shock protection	
Front plane	Acryl glass (scratch-proof coated)	
Dimensions / Weight	(WxHxD) 58 x 58 x 32,8 mm / 149 g	
Electrical characteristics		
Power supply	Battery (CR2032)	
Battery lifetime	approx. 6000 h (incl. 2 probes)	
Measuring rate	adjustable, 2 20 values / sec	
Connections		
ISi interface	Bus connection for sensors, hand / foot switch, tolerance adapter,	
Triple-I interface	Connection for IBR radio modules or cable with USB / RS232 interface	
Environmental conditions		
Operation / Storage temp.	+41 +113 °F / -4 +158 °F	
Protection class	IP65 (CEI / IEC 529)	
EMC according to EN50081	- 2 and EN50082 - 2	

Туре	Article
SD1-CC1	Compact display with ISi - Bus interface
SD1-mounting bracket	Slewable mounting bracket
SD1-pedestal	Pedestal for compact display



Accessories for SD1 dial gauges and displays

SD1 pedestal

Туре	Article	
3i-USB	Triple -I connection cable for USB interface	
3i-232	Triple -I connection cable for RS232 interface	
ISM-3i	Triple -I radio module for ISM band	
BLE-3i	Triple -I radio module for bluetooth BLE	in the same of the

CD43 computer display for industrial use

The computer display CD43 is a small and powerful display unit for measuring applications, which cannot be simply solved by using dial gauges.

The robust aluminium case as well as a high protection class allow usage in rough manufacturing environment. The new sensor interface ISi bus allows connection of up to 60 measuring probes, sensors, hand- and foot switches.

For fast and simple solving of measuring applications as well as for trend display of the production process, the CD43 is delivered with the user-friendly software ComGage Level 1.

Features

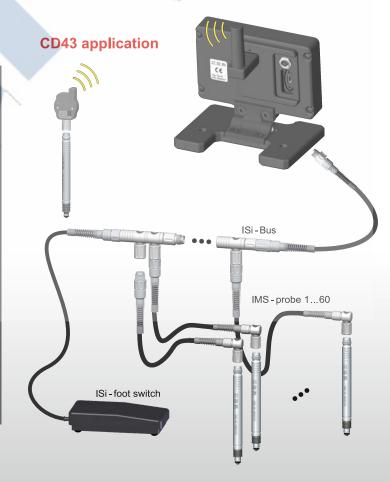
- Compact and robust construction with solid, sealed metal case (incl. connector caps for IP64), passive cooling and 4.3" TFT-Display (480 x 272) with touch screen, adjustable angle of tilt.
- ISi sensor bus for connecting 1...60 IMS probes, sensors, hand / foot switches, tolerance adapters.
- USB host (mouse, keyboard, USB stick) and USB client (data exchange with PC).





Technical data:

Mechanical characteristics				
Aluminium powder-coated				
(WxHxD) 118 x 95 x 72.5 mm / 420 g				
Front side IP65, CEI / IEC 529				
Rear side IP64 with connector caps				
Electrical characteristics				
100 240 VAC, 6 Watt				
1.8 Watt (without sensors)				
Computer characteristics				
4.3" TFT, resolution 480 x 272				
(adjustable angle of tilt)				
4-wire analogue resistive				
Vybrid VF50, 400 MHz				
128 MB RAM, 128 MB Flash				
Windows CE 6				
ComGage Level 1				
Connections				
1xUSB client, 1x USB host				
60 sensors / clients				
Environmental conditions				
+41 +113°F / -4 +158°F				



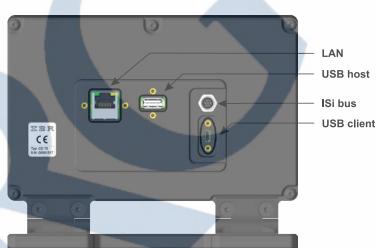
CD70 computer display for industrial use

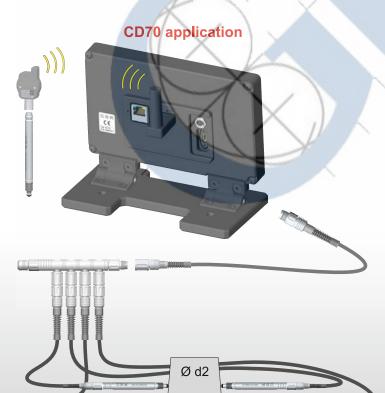
The computer display CD70 is a compact and powerful display unit for measuring applications, which cannot be simply solved by classic gauges like e.g. column gauges and digital gauges. The robust aluminium case as well as a high protection class allow usage in rough manufacturing environment. The new sensor interface ISi bus allows connection of up to 60 measuring probes, sensors, hand- and foot switches. For fast and simple solving of measuring applications as well as for trend display of the production process, the CD70 is delivered with the user-friendly software ComGage Level 1. An upgrade to ComGage Level 2 is possible.

Features

- Compact and robust construction with solid, sealed metal case (incl. connector caps for IP64), passive cooling and 7.0" TFT-Display (800 x 480) with touch screen, adjustable angle of tilt.
- ISi sensor bus for connecting 1...60 IMS probes, sensors, hand / foot switches, tolerance adapters.
- USB host (mouse, keyboard, USB stick), USB client (data exchange with PC) and LAN connection.







Ød1

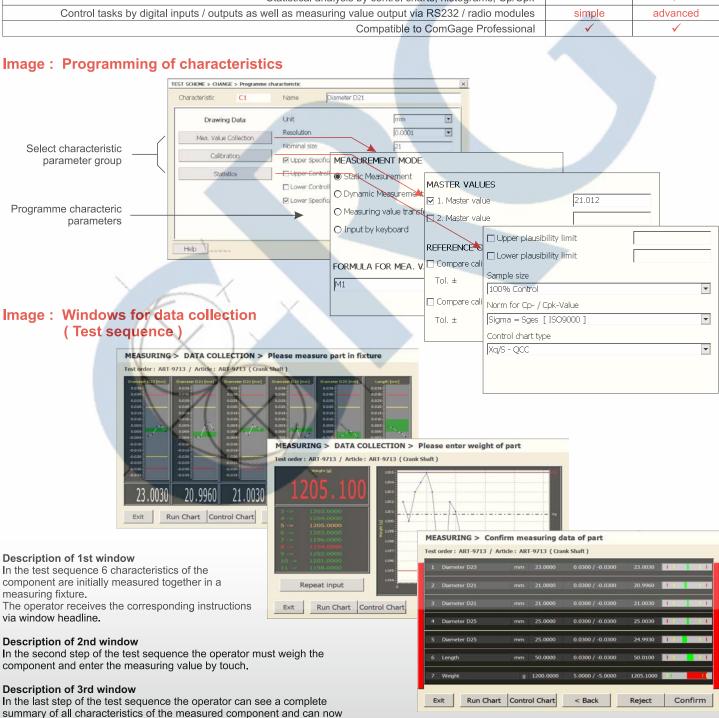
Technical data:

Mechanical characteristics				
Case with foot	Aluminium powder-coated			
Dimensions / Weight	(WxHxD) 184 x 135 x 87.5 mm / 1.0kg			
Protection class	Front side IP65, CEI / IEC 529			
	Rear side IP64 with connector caps			
Electrical characteristics				
External power supply	100 240 VAC, 6 Watt			
Max. power consumption	2.4 Watt (without sensors)			
Computer characteristics				
Display	7.0" TFT, resolution 800 x 480			
	(adjustable angle of tilt)			
Touch Screen	4-wire analogue resistive			
CPU	Vybrid VF50, 400 MHz			
Memory	128 MB RAM, 128 MB Flash			
Operating system	Windows CE 6			
Measuring software	ComGage Level 1 / ComGage Level 2			
Connections				
Standard PC connections	1xUSB client, 1x USB host, 1x LAN			
ISi interface	60 sensors / clients			
Environmental conditions				
Operation / Storage temp.	+41 +113 °F / -4 +158 °F			

ComGage Level 1 / Level 2

The software ComGage Level 1 / Level 2 are universal programmes for fast solving of measuring applications. The software is easy to handle and is optimized especially for the computer displays CD43 and CD70 with touch operation.

Features		ComGage Level 2
Number of characteristics / Number of measuring inputs	8 / 60	20 / 60
Measurement of characteristics in freely definable groups with additional input of operator instructions	✓	✓
Input of formula for probe mixing (Support of all arithmetical and trigonometrical functions)	✓	✓
Static measuring mode with live display, as well as dynamic measuring modes: Min, Max, TIR, Mean,	✓	✓
Input of measuring value by touch / keyboard	✓	✓
Export functions for collected measuring values	xls, csv	xls, csv, QDAS
Reference information data input together with measuring values (Operator, Machine,)		✓
Trend display for collected measuring values (= run chart)	✓	✓
Statistical analysis by control charts, histograms, Cp/Cpk		✓
Control tasks by digital inputs / outputs as well as measuring value output via RS232 / radio modules	simple	advanced
Compatible to ComGage Professional	✓	√



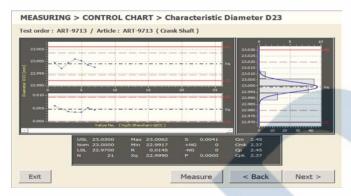
decide, whether the measuring values shall be stored inside the database.

ComGage Level 1 / Level 2

Online - SPC windows



Run chart in ComGage Level 1 and Level 2



Control chart in ComGage Level 2

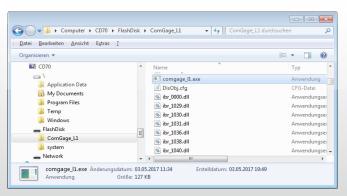
Administration, analysis and export of measured values by ComGage Professional

ComGage Professional allows creating test orders for test schemes created with ComGage Level 1 / 2. The test orders allow storage of measured data separately for production orders, production lots, ... and can be filled with measured data using ComGage Level 1 / 2.

The measured values collected with ComGage Level 1 / 2 can be exported or analysed using ComGage Professional afterwards.

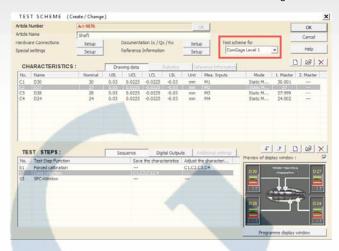
Access to flash memory of CD43 / CD70 computer displays via USB

On connection of a CD43 / CD70 via USB client connector (Micro-USB) to a Windows PC, the flash memory of the CD43 / CD70 computer display can be directly accessed via Windows Mobile Device Center Software.



Programming of test schemes using ComGage Professional on PC

The ComGage Professional menu for programming test schemes allows to specify, that the new test scheme shall be executable with ComGage Level 1.



In contrast to the programming with ComGage Level 1 / 2, the programming menu of ComGage Professional allows programming of test steps with freely designable display windows and individual control of digital inputs / outputs.

For guiding the operator through the measuring sequence freely designable display windows can be created for ComGage Level 1 / 2.

These display windows can contain pictures, lines and texts.

Step 1: Add a display element



Step 2: Place a display element



Software support

SD1 Win

SD1_Win Windows programme for configuration of SD1 sensor displays.

ISi Test

ISi_Test is a universal program for initialisation, calibration and test of all ISi sensors.

IBR DDK.DLL

Universal Device Driver Kit for linking all IBR measuring and interface instruments in Win 2000 ... Win 10 and CE programs. (Examples for VC++, VB, LabView, Delphi, ... available)

IBR VCP

COM-Port simulation program for software packages without USB, LAN and WLAN support. Simulation of older multiplexers (e.g. MUX50, MUX10, ...) for software packages without ISi-Bus, IMBus & ISM support.

IBREXDLL

Excel-Workbook for reading in, visualising and analysing measurement data in MS-Excel.

ComGage

Software for metrology and statistical process control in manufacturing facilities.

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