

John Ciriacos

Managing Director

tel: +613 59666590 fax: +613 59666590 mob:+61(0)44 908 2561 e-mail;john@electronicgaugingsolutions.com.au www.electronicgaugingsolutions.com.au 440 Little Yarra Road Gladysdale , 3797 Melbourne ,Victoria Australia



Messtechnik GmbH & Co. KG



BR

HBR.

IMS

measuring probes

CD43, CD70 computer displays

SD1 sensor display



ISI sensor bus





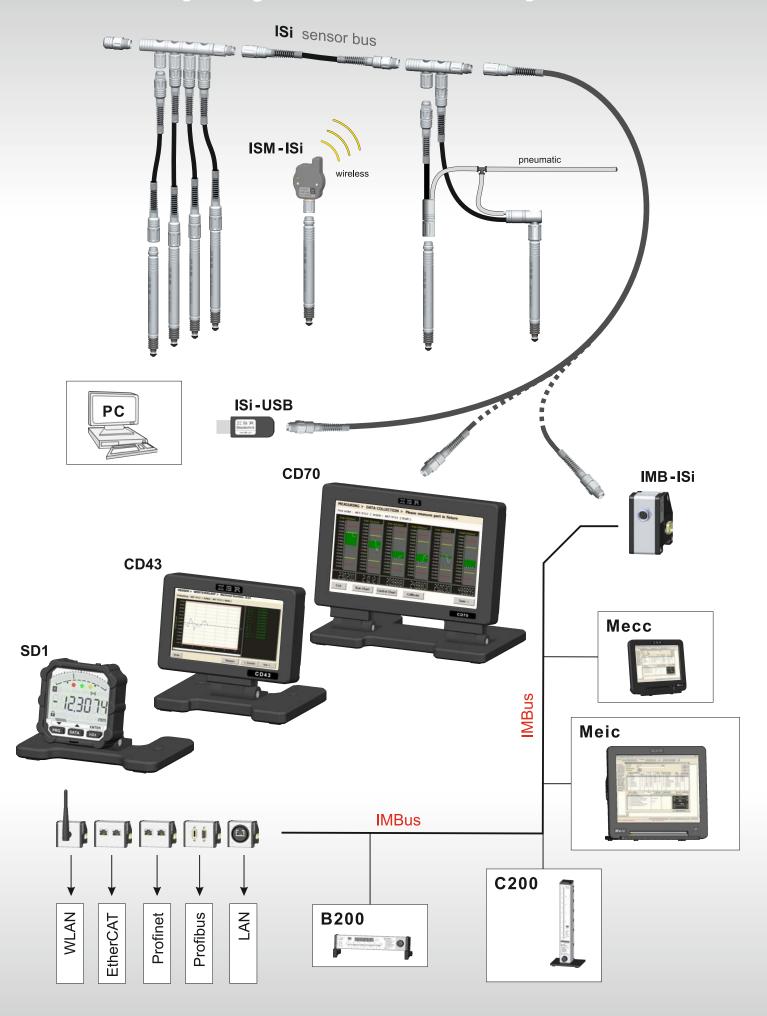
IMS measuring probe series

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.

	orobes —			Туре	Article
Fechnical data :		old	new		IMC macauring proba Emm macauring range
Mechanical characteristics	echanical characteristics		IMS	IMS-5S	IMS measuring probe, 5 mm measuring range, spring pushed / vacuum lifting
Compact tube case, stainless	npact tube case, stainless steel 8h6		✓		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
High protection class for roug	gh environments	\checkmark	\checkmark		III. II.B.R (MS-55 6002116)
Clearance-free ball bearing for	or precise mea.	\checkmark	 ✓ 		
Gauge spindle Ø 4, gauge sli	ide M2.5	\checkmark	\checkmark	IMS-5P	IMS measuring probe, 5 mm measuring range, pneumatically pushed
Actuation by spring, vacuum,	, compressed air	\checkmark	\checkmark		prieumatically pushed
Cable pluggable at measurin	g probe for	(rarely)	\checkmark		[]]][]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
simple mounting / exchange	on fixtures	(Taroly)			
Simple extension of cables w	/ithout		✓		
influence on measuring value	€S			ISi-cca	ISi connection cable, axial
Bus cables for drastic reducti			✓		
connection cables and wiring	J				
Characteristics of integrate	d electronics			ISi-ccap	ISi connection cable, axial, pneumatic
Optimal stable sensor signals			✓		
by cable / external interference					
Individual error correction of				ISi-ccr	ISi connection cable, radial
Adjustment tolerance of sens		0.30.6	< 0.05		
Max. linearity error (+/- 2 mn		< 24	< 1		
Temperature drift [ppm / °C		100	20		
No errors by external measur			 ✓ 	ISi-ccrp	ISi connection cable, radial, pneumatic
Integrated temperature meas temperature of measuring pro-			 ✓ 		
	Jbe / lixture				
Interface					
Simple wiring with ISi connect					
pluggable ISi extension cable			✓	ISi-ca1	ISi connection adapter, single
up to 60 probes / sensors (I					
Identification of IMS measurin					
Type, serial number,, next	•		✓		
can be requested directly from				ISi-ca2	ISi connection adapter, double
Fechnical data : Mea	asurina prob	e IMS-5S			
		e IMS-5S			
Metrological characteristic	s	e IMS-5S			
Metrological characteristic Measuring range	<mark>s</mark> 5 mm			ISi-ca4	ISi connection adapter, quadruple
Metrological characteristic: Measuring range Resolution	s 5 mm 0.1 μm, optional			ISi-ca4	ISi connection adapter, quadruple
Metrological characteristic: Measuring range Resolution Accuracy	s 5 mm 0.1 μm, optional < 1 μm	0.01 µm		ISi-ca4	ISi connection adapter, quadruple
Metrological characteristic Measuring range Resolution Accuracy Measuring rate	s 5 mm 0.1 μm, optional < 1 μm 1500 measuring	0.01 µm values / sec	(0.1 µm)	ISi-ca4	ISi connection adapter, quadruple
Metrological characteristic: Measuring range Resolution Accuracy Measuring rate Measuring force	s 5 mm 0.1 μm, optional < 1 μm	0.01 µm values / sec	(0.1 µm)	ISi-ca4	ISi connection adapter, quadruple
Metrological characteristic: Measuring range Resolution Accuracy Measuring rate Measuring force Electrical characteristics	s 5 mm 0.1 μm, optional < 1 μm 1500 measuring 0.7 N / (optiona	0.01 µm values / sec	(0.1 µm)		
Metrological characteristic: Measuring range Resolution Accuracy Measuring rate Measuring force Electrical characteristics Supply voltage	s 5 mm 0.1 μm, optional < 1 μm 1500 measuring 0.7 N / (optiona 2.7 3.6 V	0.01 µm values / sec I 0.4 2.0 N	(0.1 µm))	ISi-ca4 ISi-USB	ISi connection adapter, quadruple
Metrological characteristic: Measuring range Resolution Accuracy Measuring rate Measuring force Electrical characteristics	s 5 mm 0.1 μm, optional < 1 μm 1500 measuring 0.7 N / (optiona	0.01 µm values / sec I 0.4 2.0 N	(0.1 µm))		
Metrological characteristic: Measuring range Resolution Accuracy Measuring rate Measuring force Electrical characteristics Supply voltage Power consumption Characteristics of integrate	s 5 mm 0.1 μm, optional < 1 μm 1500 measuring 0.7 N / (optiona 2.7 3.6 V 2.8 μA / measure ct temperature se	0.01 µm values / sec I 0.4 2.0 N ment per se	(0.1 µm))		
Metrological characteristic: Measuring range Resolution Accuracy Measuring rate Measuring force Electrical characteristics Supply voltage Power consumption Characteristics of integrate Measuring range	s 5 mm 0.1 μm, optional < 1 μm 1500 measuring 0.7 N / (optiona 2.7 3.6 V 2.8 μA / measure ed temperature se -20 °C 80 °C	0.01 µm values / sec I 0.4 2.0 N ment per se	(0.1 µm))	ISi-USB	ISi connection adapter for USB
Metrological characteristics Measuring range Resolution Accuracy Measuring rate Measuring force Electrical characteristics Supply voltage Power consumption Characteristics of integrate Measuring range Resolution	s 5 mm 0.1 μm, optional < 1 μm 1500 measuring 0.7 N / (optional 2.7 3.6 V 2.8 μA / measure cd temperature se -20 °C 80 °C 0.25 °C	0.01 µm values / sec I 0.4 2.0 N ment per se	(0.1 µm))	ISi-USB	
Measuring range Resolution Accuracy Measuring rate Measuring force Electrical characteristics Supply voltage Power consumption Characteristics of integrate Measuring range	s 5 mm 0.1 μm, optional < 1 μm 1500 measuring 0.7 N / (optiona 2.7 3.6 V 2.8 μA / measure ed temperature se -20 °C 80 °C	0.01 µm values / sec I 0.4 2.0 N ment per se	(0.1 µm))	ISi-USB	ISi radio module for ISM band
Metrological characteristics Measuring range Resolution Accuracy Measuring rate Measuring force Electrical characteristics Supply voltage Power consumption Characteristics of integrate Measuring range Resolution	s 5 mm 0.1 μm, optional < 1 μm 1500 measuring 0.7 N / (optional 2.7 3.6 V 2.8 μA / measure cd temperature se -20 °C 80 °C 0.25 °C	0.01 µm values / sec I 0.4 2.0 N ment per se	(0.1 µm))	ISi-USB	ISi radio module for ISM band
Metrological characteristic: Measuring range Resolution Accuracy Measuring rate Measuring force Electrical characteristics Supply voltage Power consumption Characteristics of integrate Measuring range Resolution Accuracy	s 5 mm 0.1 μm, optional < 1 μm 1500 measuring 0.7 N / (optional 2.7 3.6 V 2.8 μA / measure cd temperature se -20 °C 80 °C 0.25 °C	0.01 µm values / sec I 0.4 2.0 N ment per se nsor	(0.1 µm)) cond	ISi-USB	ISi radio module for ISM band

Capability of connection for IMS probes



SD1 universal sensor display

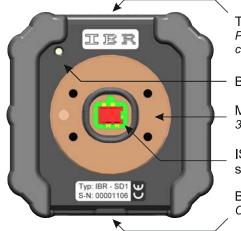
The sensor display unit SD1 was especially developed for industrial use. The robust aluminium case with rubber shock protection as well as a high protection class allow usage in rough manufacturing environment. The display is rotatable, a numeric display shows the measuring values with high resolution 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



Triple-I interface PC connection by cable or wireless

Buzzer

Mounting flange 360° rotatable

ISi interface sensor bus

Battery case CR 2032

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 characteristics				
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	e 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	- 2 and EN50082 - 2				

Software functions :

	Basic 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	
Display mode	Bargraph / Single segment	
Bargraph origin	Left / Center / Right	
	Special features	
Windows software for configuration of sensor display SD1		



Key function in programming menu

Key function in measuring mode



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	Data transfer Start / Stop dynamic measurement	Increase flashing display (+1)	
> 2 sec.	Freely programmable favorite key		
>0<	Zero adjustment	ENTER Confirm flashing display	
> 2 sec.	Freely programmable favorite key	Exit menu item	

Windows configuration software SD1_Win.exe

Manufacturer configuration of SD1 functions (Level 1)					>	<	
Basic functions	Programmable :	Factory settings in SD1			ОК	^	
Selection of Unit	V	mm		-			Unit
Selection of Resolution	V	0.0001		•	Cancel		rESoL.
Selection of measuring direction	V	positive		-	Help		dir.
Calibration	Programmable :	Factory settings in SD1		_			
Zeroadjustment / Preset	V	20.0000	Preset				PrESEt
2-Master calibration	V	-0.0500	Min-Master				2-CAL.
		0.0500	Max-Master				Z-CAL.
Temperature forced calibration	V	3.0 °C		-			dtCAL.
Timer forced calibration		Off					tFCAL
Measuring inputs	Programmable :	Factory settings in SD1					
Measuring input A		✓ +A ✓	1				
Measuring input B		→ + A → → → → → → → → → → → → → → → → →	-				FActor / Probl
	-		1				
Measuring modes Static Mean (Max + Min)/2	Programmable :	Factory settings in SD1					
Min TIR (Max-Min)		Static		-			SEt. OP.
Max Bore (2 point bore mea.)							
Grading mode	Programmable :	Factory settings in SD1					
Number of grades		Off					GrAdinG
Display value on numeric display		Measuring value		-			
Tolerance limits	Programmable :	Factory settings in SD1	_				
Nominal size with relative tolerance limits (e.g. 20 mm +0.02 / -0.01)		20.0000	Nominal size				SEt. Pnt.
Absolute tolerance limits (e.g. 20.02 mm / 19.99 mm)	V	0.0500	UT (+ Tolerance)				SEt. toL.
Boolde ale and and and (e.g. 20102 min / 1919) min /		-0.0500	LT (- Tolerance)				SEL IOL.
Tolerance LEDs	Programmable :	Factory settings in SD1					
Display colour		Red	Exceeding UT				
		Red	Undercutting LT				toL. LED
Display output time	V	2 seconds 🗨]				
Analogue display	Programmable :	Factory settings in SD1					
Mode of analogue display	V	Bargraph		-			CoL. diS.
Origin of analogue display	V	Center		-			00110101
Display control	Programmable :	Factory settings in SD1					
Freeze display on static measurement (hold)		Off		-			hoLd
Favorite buttons in measuring mode (button pressed for 2 sec)	Programmable :	Factory settings in SD1					
Display switchover : Calibration :		'PRG' button					but, PRG,
Dyn. mode (Min, Max,) Z-Master calibration		Delete zeroadjustment / cal.		-			540,1100,
 Mea. value / grade Delete zeroadjustment / cal. Mea. value / nom. size variation 		'DATA' button					but, dAtA,
Mea. value / temperature Device control :		Autom. data output on changing o	fmea. value (on / off)	-			but uAtA.
✓ Mea. value / battery voltage ✓ Switch gauge off ✓ Unit ✓ Autom. data output on changing		'>0<' button		_			but. CAL.
Resolution of mea. value (on / off)		Switch gauge off		-			but. CAL.
ISi hand / foot switch	Programmable :	Factory settings in SD1					
Assign function		No function		•			FootS.
Passcodes	Programmable :	Factory settings in SD1					
	-		-				P.C. ProG.
Passcode for programming menu (4 digits)							P.C. CAL
Passcode for calibration (4 digits)		Off					I.O. OAL.
Special parameters	Programmable :	Factory settings in SD1					
Auto-Power-Off time		10 minutes		<u> </u>			Auto.oFF
Measuring rate		10 values / second					SA.rAtE
Button tone		On					BEEP
				- 1			DEEP
Output time of error messages on numeric display Data output over Triple-I interface	<u>र</u>	I 1600 msec ✓ Display value ─ Min ─ Max	_	-			

Menu view on SD1 LCD display

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		



Note : The IB5 measuring sensor is fixed with 4 screws on the display and is to exchange.

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 \rightarrow 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 - 2 and EN50082 - 2					



Compact display SD1 - CC1

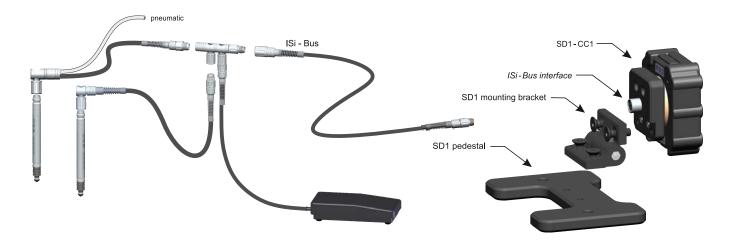
The SD1-CC1 is a very efficient, powerful display with ISi-Bus interface. Due to the ISi bus, several sensors, foot and hand switches and tolerance adapters can be connected.

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

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	the second second

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.

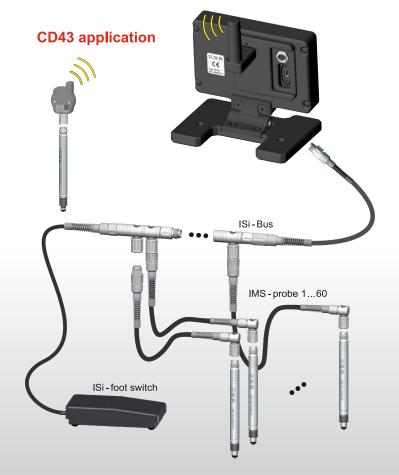
- USB host (mouse, keyboard, USB stick) and USB client (data exchange with PC).





Technical data :

	Mechanical characteristics			
Case with foot	Aluminium powder-coated			
Dimensions / Weight	(WxHxD) 118 x 95 x 72.5 mm / 420 g			
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	1.8 Watt (without sensors)			
Computer characteristics				
Display	4.3" TFT, resolution 480 x 272			
	(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			
	Connections			
Standard PC connections	1 x USB client, 1x USB host			
ISi interface	60 sensors / clients			
	Environmental conditions			
Operation / Storage temp.	+41 +113 °F / -4 +158 °F			



CD70 computer display for industrial use

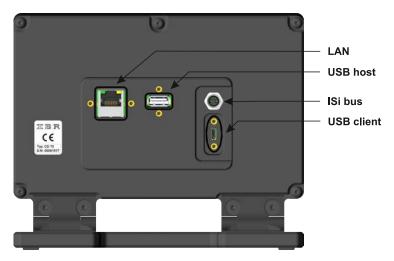
The computer display CD70 is a compact and powerful display unit for measuring applications, which cannot be simply solved by classic gauges like e.g. column gauges and digital gauges. The robust aluminium case as well as a high protection class allow usage in rough manufacturing environment. The new 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.

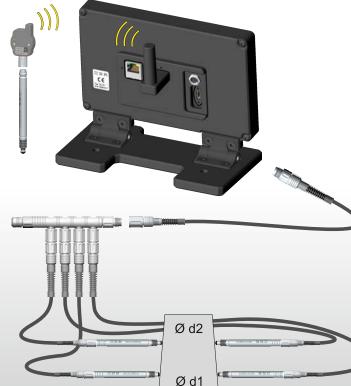
- USB host (mouse, keyboard, USB stick), USB client (data exchange with PC) and LAN connection.





Technical data :

	Mechanical characteristics			
Case with foot	Aluminium powder-coated			
Dimensions / Weight	(WxHxD) 184 x 135 x 87.5 mm / 1.0k			
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	1 x USB client, 1x USB host, 1x LAN			
ISi interface	60 sensors / clients			
	Environmental conditions			
Operation / Storage temp.	+41 +113 °F / -4 +158 °F			



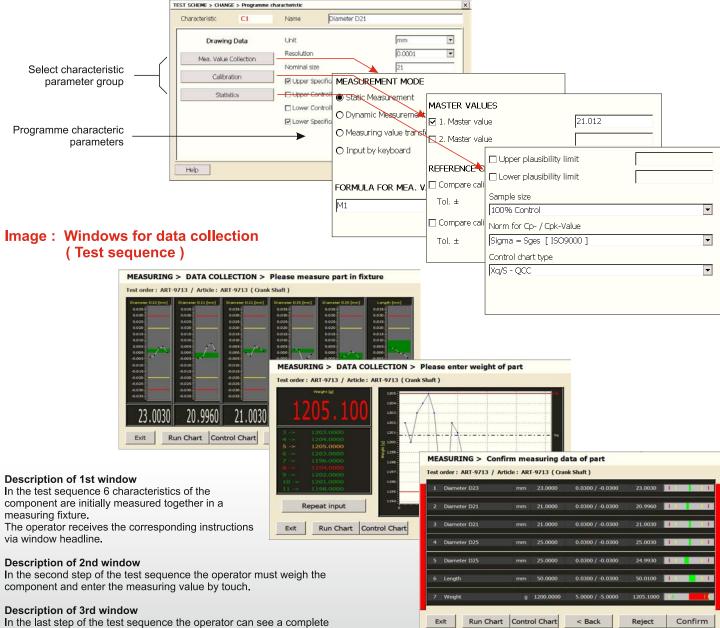
CD70 application

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 1	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	✓	✓	

Image : Programming of characteristics



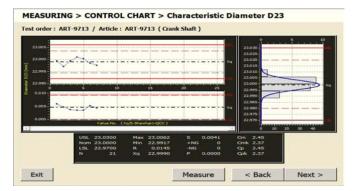
summary of all characteristics of the measured component and can now decide, whether the measuring values shall be stored inside the database.

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.

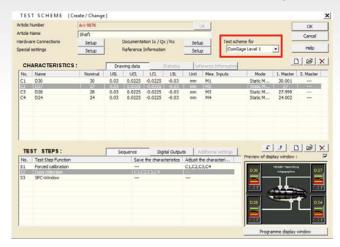
Access to flash memory of CD43 / CD70 computer displays via USB

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.

Computer + CD70	, masherisk i	controdge_cr	▼ 49 ComGage	_L1 durchsuchen
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Organisieren 🔻				ii • 🔟 🤅
🖾 CD70	^	Name	<u>^</u>	Тур
		comgage_l1.exe		Anwendung
Application Data My Documents		DisObj.cfg		CFG-Datei
		🚳 ibr_0000.dll		Anwendungs
Program Files		🚳 ibr_1029.dll		Anwendungs
Temp Windows FlashDisk ComGage_L1		🚳 ibr_1030.dll		Anwendungs
		🚳 ibr_1031.dll		Anwendungs
	E	🚳 ibr_1036.dll		Anwendungs
		🚳 ibr_1038.dll		Anwendungs
腸 system		🚳 ibr_1040.dll		Anwendungs
 Network 	-	۰ III		•

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.

Head office of IBR Messtechnik GmbH & Co. KG





Messtechnik GmbH & Co. KG

Ringstraße 5 D - 36166 Haunetal Germany Tel. : +49 (0)6673 90091-0 Fax. : +49 (0)6673 90091-100 E-Mail: info@IBR.com Web : http://www.IBR.com