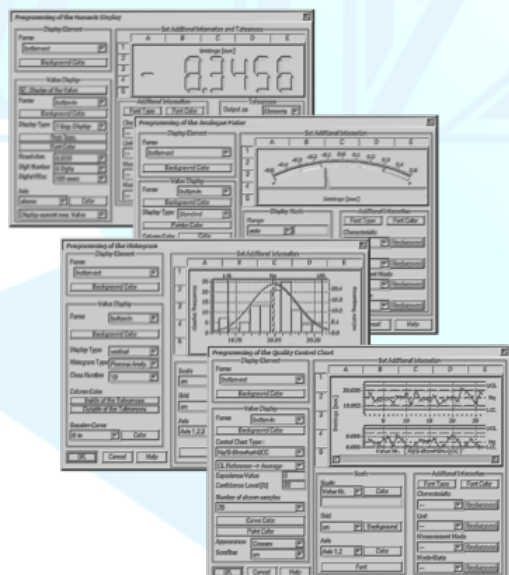
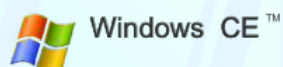


IBR MECC

Compact measuring computer



MECC: Compact measuring computer for industrial use

The compact measuring computer **Mecc** is a robust and universal industrial computer for manual and automatic collection of measured values with statistical analysis. Programmable measuring sequences and control functions allow the automatic operation of multi-gauging fixtures up to the transfer of correction values to CNC machines. By the usage of IMBus modules the measuring computer can be individually configured for any application with 1...64 measuring inputs.

- Compact and robust construction with solid, sealed metal case (optional cover cap for IP64), passive cooling and 8" TFT-Display (800 x 600) with touch screen, adjustable angle of tilt
- IMBus modules for inductive probes, incremental systems, pneumatic gauge heads, sensors with analogue voltage or current outputs and gauges with data output
- Profibus - and PLC compatible in / outputs for control applications
- Standard PC -connections USB, LAN and RS232 (COM-Port)



Create characteristics

CHARACTERISTICS:			Drawing data			Statistics		Reference information				
No.	Name	Nominal	USL	USL	LCL	LSL	Unit	Meas. Inputs	Mode	1 Master	2 Master	
C1	Diameter 1	20	0.02	0.025	0.025	-0.03	mm	M1-M4	Static	19.9932	---	
C2	Diameter 2	20	0.02	0.015	-0.015	-0.02	mm	M3-M4	Static	20.0002	---	
C3	Diameter 3	32	0.027	0.0236	0.034	0	mm	M5-M6	Static	32.016	---	
C4	Taper	12	0.04	0.03	-0.03	-0.04	mm	(M5-M6)/(M1-M4)	Static	12.0168	---	
C5	Straightness	0	0.01	0.0075	-0.0075	-0.01	mm	(M1-M4)/(M5-M6)/2	Static	0	---	
C6	Roundness D1	0	0.008	0.006	---	---	mm	(M1-M4)/2	TIR (Ma	---	---	
C7	Roundness D2	0	0.008	0.006	---	---	mm	(M3-M4)/2	TIR (Ma	---	---	
C8	Roundness D3	0	0.008	0.006	---	---	mm	(M5-M6)/2	TIR (Ma	---	---	

Input of characteristics with unit, nominal size, tolerances, formula for probe-mixing, measuring mode and master values for calibration.

Create test steps

TEST STEPS:		Sequence	Digital Outputs	Additional settings
No.	Test Step Function	Save the characteristics	Adjust the characteristics	
S1	Wait for next component	---	---	---
S2	Move probes out pneumatically	---	---	---
S3	Measure Diameter 1, 3, Taper, Straightness	C1,C2,C3,C4,C5	---	---
S4	Start motor for Roundness-Measurement	---	---	---
S5	Roundness-Measurement	---	---	---
S6	Stop motor and move probes in	C6,C7,C8	---	---
S7	Send correction values to PLC via Profibus	---	---	---
S8	Export measured values to Q-DAS	---	---	---

Create test steps with functions like saving of measured values, calibration, Q-DAS export, correction value transfer to PLC, ...

Create display windows



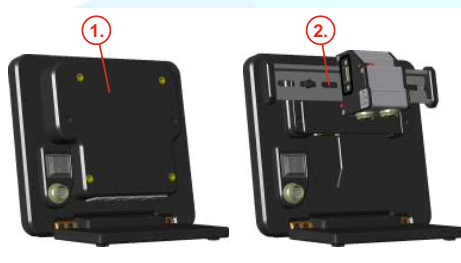
For guiding the operator through the measuring sequence free designable display windows can be created.

Windows CE - No shut down of the operating system
- High security against virus and misuse
- Storing of measured values in internal flash memory, on USB-Sticks and in network



Com

Software for metrology and statistical process control in manufacturing facilities. (ComGage Level 1 included in delivery)



Accessories

- 1) Mecc cover cap (protection class IP64) mounting standard VESA MIS-D 100C
- 2) Mecc with mounting rail set for fastening of IMBus modules

Mechanical Characteristics	
Case with base parts	Aluminium powder coated
Dimensions / Weight	(W x H x D) 203 x 183 x 109 mm / 1.2kg
Protection Class	Front side IP65, CEI / IEC 529
	Rear side IP64 with cover cap
Electrical characteristics	
External power supply	100 ...240 VAC, 12 Watt
Max. power consumption	7 Watt (without measuring modules)
Computer characteristics	
Display	8" TFT, max. resolution 800 x 600 (Adjustable angle of tilt -8.5° till 20°)
Touch Screen	4-wire analogue-resistive
CPU	Xscale PXA320, 806 MHz
Memory	128 MB RAM, 1GB Flash
Operating system	Windows CE
Measuring software	ComGage
Connections	
Standard PC connections	2xUSB 2.0, 1xLAN, 1xRS232 (COM)
IMBus	EIA RS485, 64 clients
Measuring modules / Control modules	
See technical documentation of IMBus modules	
Environmental conditions	
Operation / Storage temp	41 ... 113°F / -4 ... +158°F

Ordering Information		
Type	[Art. No.]	Article
Mecc	[F234 002]	Compact measuring computer with power supply, 8" TFT – Touch display, Win CE & ComGage Level 1
	[F234 010]	Mecc cover cap for cable connectors (IP68) and VESA MIS-D 100 C
	[F234 020]	Mecc mounting rail set