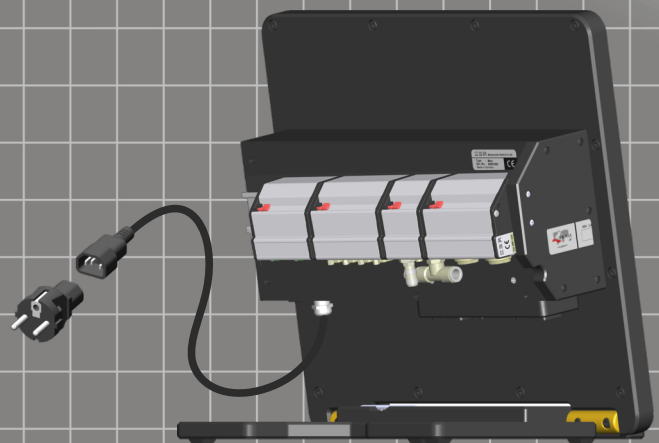
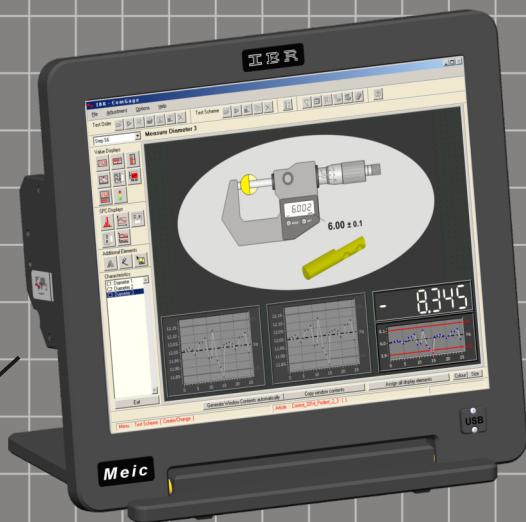




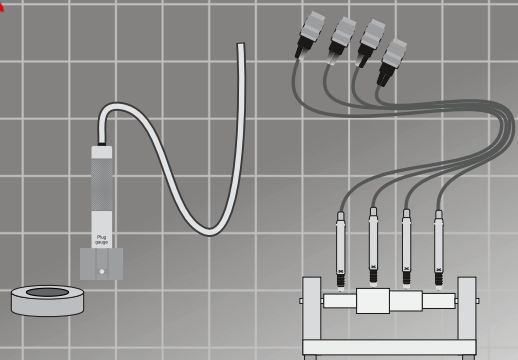
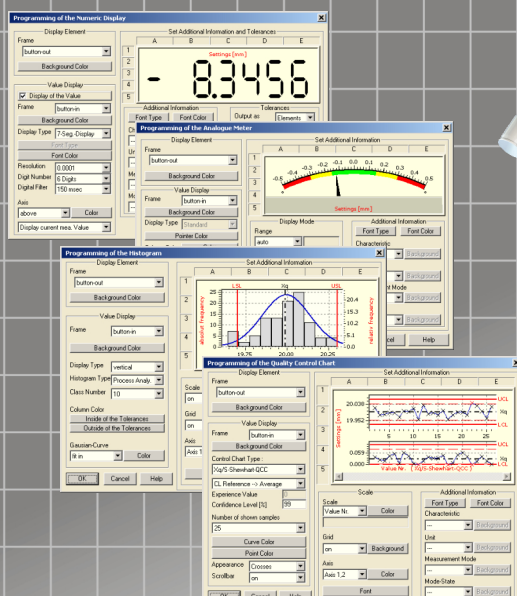
Messtechnik GmbH & Co. KG



Meic 
Computer industriale



 **Windows 10 IoT Enterprise™**



Meic : computer di misura, industriale



Il **Meic** è un computer industriale robusto e universale per la raccolta manuale e automatica delle misure e per la loro analisi statistica. Sequenze di misura programmabili e molteplici funzioni di controllo consentono il funzionamento automatico di dispositivi di misura multipli fino al trasferimento dei valori di correzione alle macchine CNC.

Utilizzando i moduli IMBus, il Meic può essere configurato per qualsiasi applicazione con 1 ... 512 ingressi di misura.

Caratteristiche

- Struttura compatta e robusta con cassa metallica solida e sigillata (IP54), raffreddamento passivo e memoria flash, display TFT da 17" (1280 x 1024) con inclinazione regolabile, touch opzionale
- Moduli IMBus per sonde induttive, sistemi incrementali, calibri pneumatiche (misurazione ad aria), sensoricon uscita analogica in tensione o corrente, calibri uscita dati e sensori con interfaccia IBR ISI
- Moduli di input/output compatibili con Profibus, Profinet, Ethernet/IP, EtherCAT e PLC per automazioni
- Porte PC standard : 3x USB, 2x Ethernet, 1x VGA e 1x RS232 (Porta COM)

ComGage

Software per la metrologia e il controllo di processo in produzione.

Software for metrology and statistical process control in manufacturing facilities.



Sistema Operativo
Operating system
Windows10 IoT Enterprise

Creazione caratteristiche / Create characteristics

CHARACTERISTICS :										Drawing data			Statistics		Reference Information			
No.	Name	Nominal	USL	UCL	LCL	LSL	Unit	Mea. Inputs	Mode	1. Master	2. Master							
C1	Diameter 1	20	0.03	0.025	-0.025	-0.03	mm	M1+M2	Static	18.9992	---							
C2	Diameter 2	28	0.02	0.015	-0.015	-0.02	mm	M3+M4	Static	28.0002	---							
C3	Diameter 3	32	0.027	0.0236	0.0034	0	mm	M5+M6	Static	32.016	---							
C4	Taper	12	0.04	0.03	-0.03	-0.04	mm	(M5+M6)/(M1+M2)	Static	12.0168	---							
C5	Straightness	0	0.01	0.0075	-0.0075	-0.01	mm	(M1+M2+M5+M6)/2	Static	0	---							
C6	Roundness D1	0	0.008	0.006	---	---	mm	(M1+M2)/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...	---	---							

Inserimento caratteristiche con unità di misura, misura nominale, tolleranze, formule per la correlazione tra sonde, modalità di misura e valori master per la calibrazione

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

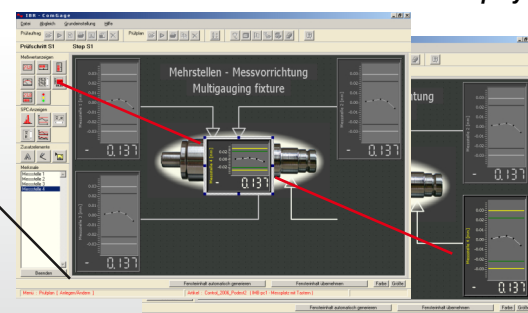
Creazione passi di controllo / Create test steps

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

Creazione dei passi di controllo con funzioni per il salvataggio delle misure, per la calibrazione, per l'esportazione in formato Q-DAS, per l'invio di valori di correzione al PLC

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

Creazione finestra di visualizzazione / Create display windows



È possibile creare fino a 128 finestre di visualizzazione liberamente progettabili per guidare l'operatore attraverso la sequenza di misurazione.

Up to 128 freely designable display windows can be created for guiding the operator through the measuring sequence.

Meic : Measuring computer for industrial use

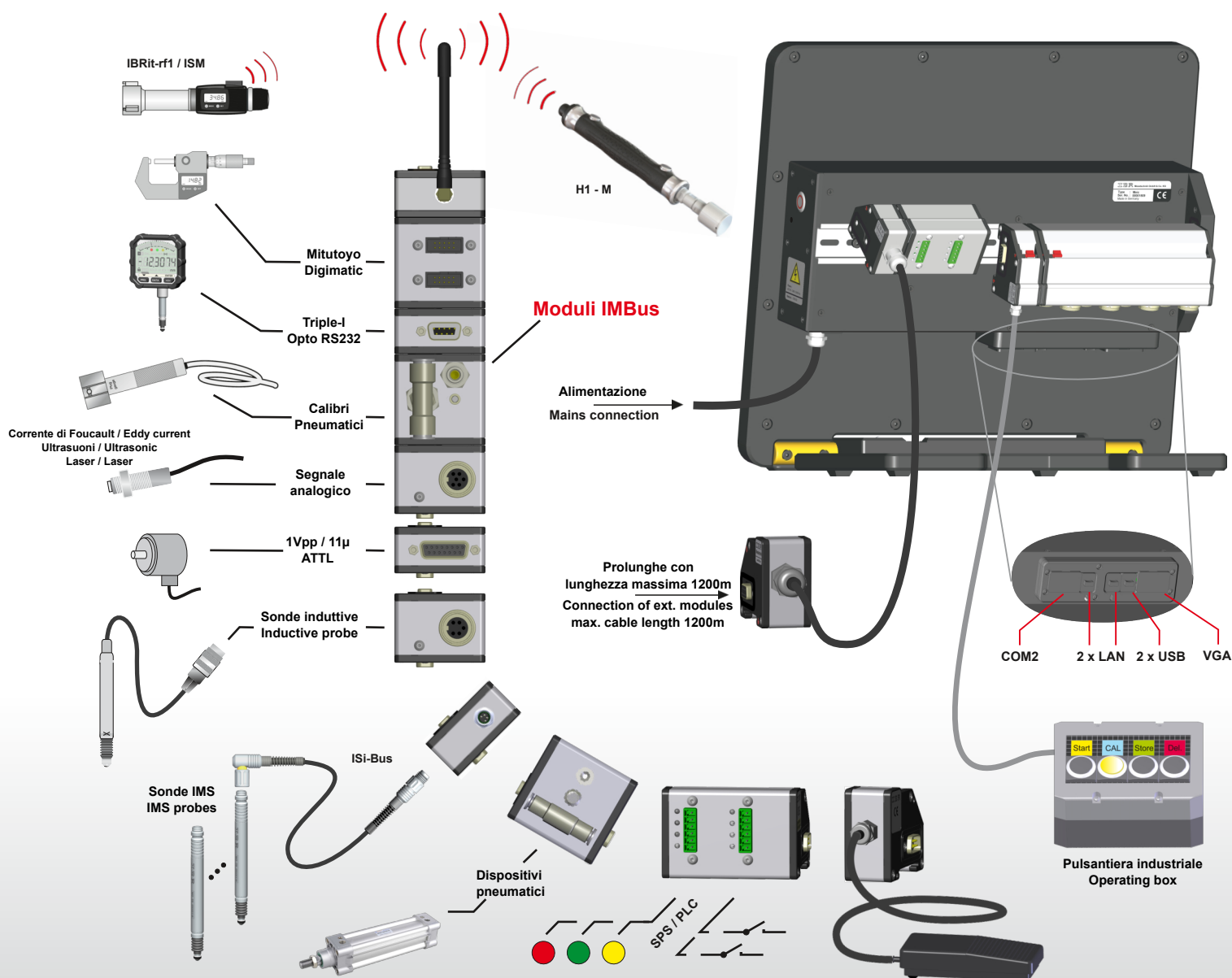


The measuring computer **Meic** is a robust and universal industrial computer for manual and automatic collection of measured values with statistical analysis. Programmable measuring sequences and control functions allow automatic operation of multi-gauging fixtures up to the transfer of correction values to CNC machines.

By the usage of IMBus modules the measuring computer can be individually configured for any application with 1...512 measuring inputs.

Features

- Compact and robust construction with solid, sealed metal case (IP54), passive cooling and flashmemory as well as 17" TFT-Display (1280 x 1024) with adjustable tilt, touch optional
- IMBus modules for inductive probes, incremental systems, pneumatic gauge heads (air gauging), sensors with analogue voltage or current output, gauges with data output and sensors with IBR ISI interface
 - Profibus-, Profinet-, Ethernet/IP-, EtherCAT- and PLC compatible input / output modules for control applications
- Standard PC-connections : 3x USB, 2x Ethernet, 1x VGA and 1x RS232 (COM port)



Nota: per ulteriori moduli IMBus (per strumenti con interfaccia USB, Solarton Orbit bus, Sylvac Bluetooth, sensori di temperatura, ...), consultare il catalogo IMBus.
 Note :Further IMBus mea. modules available (for USB gauge connection cables, Solarton Orbit bus, Sylvac Bluetooth, temp. sensors, ...), see IMBus brochure.

Dati tecnici : Meic



Caratteristiche meccaniche

Cassa	Alluminio verniciato a polvere
Base	Alluminio verniciato a polvere
Pannello di protezione TFT	Plexiglass da 3 mm, Touch opzionale
Dimensioni / Peso	(LxAxP) 405 x 385 x 260 mm / 12 kg
Classe di protezione	IP54 (frontale IP65), CEI / IEC 529

Caratteristiche elettriche

Alimentazione	100 ... 240 VAC, 70 Watt
Consumo massimo	26 Watt (senza Moduli di misura)

Caratteristiche Computer

Monitor	17" TFT, risoluzione massima 1280 x 1024 (Inclinazione regolabile da -5° a 17°)
CPU	Intel Celeron J1900, 4 core, 2,42 GHz
RAM	8 GB
Hard disk	64 GB / 256 GB memoria Flash
Sistema Operativo	Windows 10 IoT Enterprise

Collegamenti

Collegamenti standard PC	3xUSB 2.0 (di cui una frontale)
	2xLAN (Gigabit), Jack RJ45
	1xRS232 (COM2)
IMBus	EIA RS485, 64 Client (espandibile a 512 client)

Parametri di misura

Consultare la documentazione tecnica dei moduli IMBus collegati

Condizioni ambientali

Temper. Utilizzo / Stoccaggio	0 ... 50°C / -20 ... +70°C
Umidità relativa	5 - 80% (nicht kondensierend)

Technical data : Meic



Mechanical characteristics

Case	Aluminium powder-coated
Base	Aluminium powder-coated
TFT protection pane	3 mm Plexiglass, optional Touch
Dimensions / Weight	(WxHxD) 405 x 385 x 260 mm / 12 kg
Protection class	IP54 (on front IP65), CEI / IEC 529

Electrical characteristics

Switched power supply	100 ... 240 VAC, 70 Watt
Max. power consumption	26 Watt (without measuring modules)

Computer characteristics

Display	17" TFT, max. resolution 1280 x 1024 (Adjustable angle of tilt -5° to 17°)
CPU	Intel Celeron J1900, 4 cores, 2.42 GHz
RAM	8 GB
Hard disk	64 GB / 256 GB Flash-Card
Operating system	Windows 10 IoT Enterprise

Connections

Standard PC connections	3xUSB 2.0 (thereof 1 Front-USB)
	2xLAN (Gigabit), RJ45 - jack
	1xRS232 (COM2)
IMBus	EIA RS485, 64 clients (Expandable to 512 clients)

Measurement parameters

See technical documentation of the connected IMBus modules
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Environmental conditions

Operation / Storage temp.	32 ... 122°F / -4 ... +158°F
Relative humidity	5 - 80% (non condensing)

Informazioni per l'ordine

Order information



Codice	Art. Nr.	Descrizione
Meic	[F124 010]	Computer industriale con display a colori TFT da 17", senza memoria flash e senza Sistema Operativo
Meic	[F124 011]	Computer industriale con display a colori, TFT, touch, da 17", senza memoria flash e senza Sist. operativo
	[F125 010]	Licenza Windows 10 IoT Enterprise (multilingua) e 64 GB di memoria flash
	[F125 012]	Licenza Windows 10 IoT Enterprise (multilingua) e 256 GB di memoria flash



Nota :

A seconda dei requisiti dell'applicazione, è necessario ordinare i moduli IMBus e, eventualmente, i Moduli del Software ComGage



Codice	Art. No.	Descrizioni
Meic	[F124 010]	Measuring computer with 17" TFT colour display without flash and without operating system1
Meic	[F124 011]	Mea. computer with 17" Touch TFT colour display without flash and without operating system
	[F125 010]	License Windows 10 IoT Enterprise (multi-language) and 64 GB flash memory
	[F125 012]	License Windows 10 IoT Enterprise (multi-language) and 256 GB flash memory

Note :

According to the application requirements the IMBus modules and if necessary ComGage modules must be ordered additionally.



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