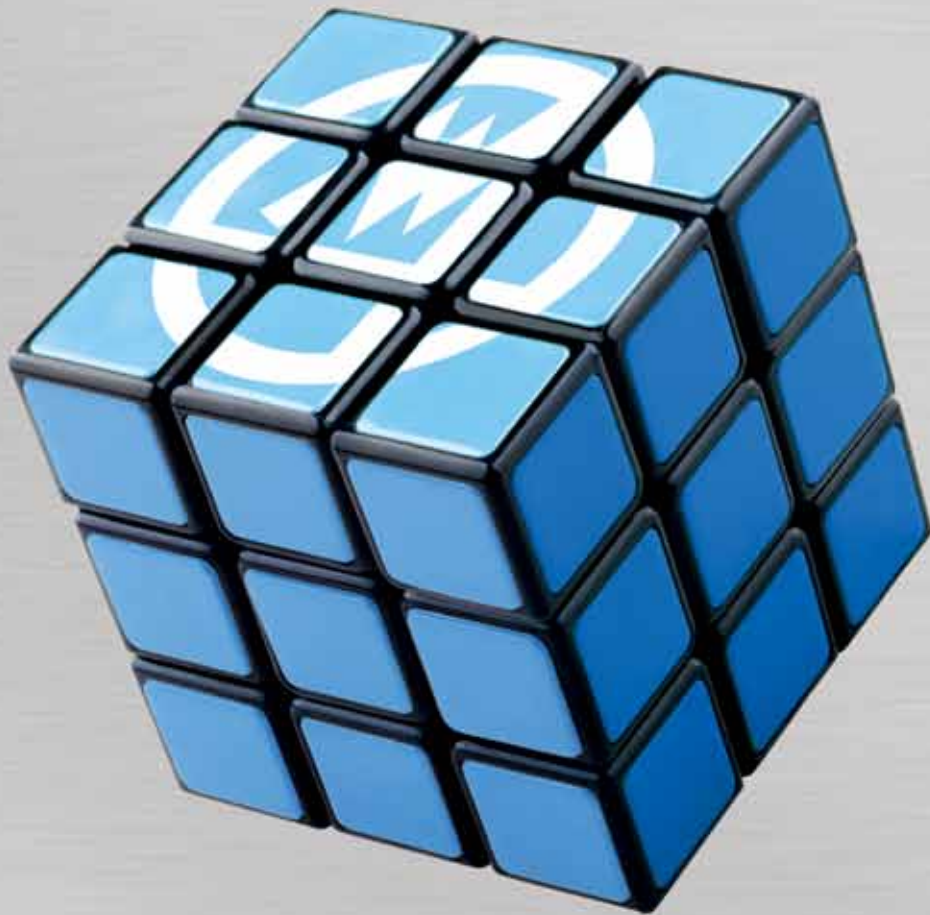
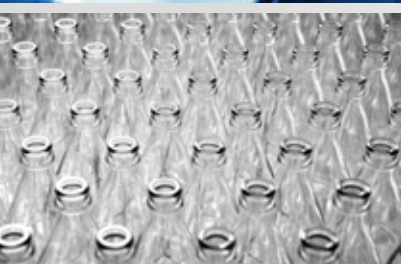
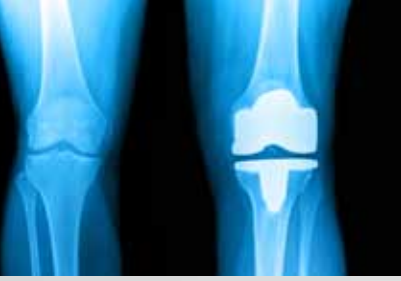


# MARPOSS



**MANUAL GAUGING  
COMPONENTS**

QUICK GUIDE



Marposs produces electronic metrology systems designed to perform dimensional, geometrical and surface checks on mechanical pieces in harsh shop floor environments, and systems for monitoring machine tools and their cutting or forming tools during the working cycles.

The company offers standard or customized solutions for each stage of the production process; starting with the checks carried out before, during and after the machining process, as well as for inspection of finished pieces, and collecting and processing measurement data. In particular: measurement and control for machine tools; dimensional and geometrical inspection of mechanical pieces; non-destructive and leak testing; integrated measurement and assembly systems; statistical process and quality controls.

Marposs products are designed for machine tool and measurement station manufacturers, and end users in the following sectors: automotive and associated sub-contractors, bearings, gears, compressors, electrical motors, aerospace, glass, energy, electronics and hi-tech, biomedical.

Today the Marposs group has more than 3150 employees in 80 branch offices located in 25 countries worldwide.

Testar is the division of Marposs whose mission is to develop and offer innovative measuring component products to end users and system integrators as well as fixture and gauge makers, whose final products are used in above mentioned sectors.

All Testar products originate in the Research and Development center within World Headquarters in Italy. Here the knowledge gained from both customer applications and our own internal manufacturing operations, is the basis for developing new ideas. Testar' product development process integrates Marketing, Research and Development, Engineering and Manufacturing through simultaneous engineering methodologies. As a result, all new product platforms use the latest production technologies available. Testar' manufacturing area operates with the most advanced equipment to assure the quality of its products is first class.

#### Headquarters - Bentivoglio (BO) Italy



## DISPLACEMENT SENSORS



### Red Crown2

New pencil probe line developed to meet industry's new global demands for improved performance in a measuring product.

The Red Crown 2 line and its digitalized versions Digi Crown 2 and Red Crown 2 USB, offer a variety of measuring solutions. The two main families, Standard (with Gaiter-IP 65) and Soft Touch (without Gaiter-IP 54), are available with the following options:

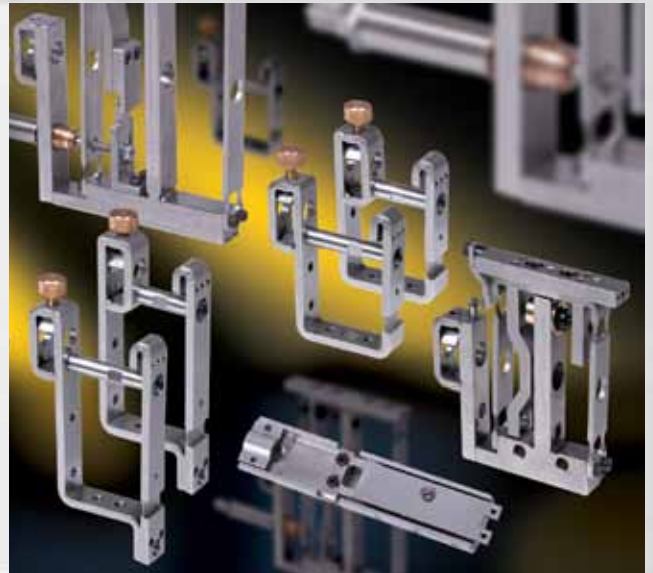
- HBT and LVDT type transducers
- Five standard measuring ranges: 1 mm, 2 mm, 5 mm, 10 mm, 20 mm
- Actuation / retraction by Spring, Pneumatic, or Vacuum methods.
- Analogue connection: Marposs standard connector or compatible connectors for interfacing with competitor electronics
- Digital connection for Marposs DigiCrown network system
- Direct USB connector for simple interfacing to computers
- Cable only allows customer to connect using their preferred type of connector

### AMA

Advanced Measuring Armsets developed to meet the requirements of fixture makers, gauge makers and measuring solutions where direct sensor contact is not recommended. The universal feature of the product line is to use the AMA between the workpiece and the transducer. This is achieved with:

- 15 different designs
- 8 mm or 3/8" clamping diameter for sensors
- high precision and reliability
- compact design (12 mm thickness)
- variety of mounting options
- wide range of contacts including offset types

They can be used with any pencil probe, as well as dial and digital indicators. Pneumatic actuation, available on some models, allowing contact retraction, to eliminate interference with the workpiece, during manual and automatic part loading and unloading.



### Quick Block 1000

Compact, universal, high accuracy measuring device available with  $\pm 5$  mm range. Supplied with built-in full-bridge (LVDT) or half-bridge (HBT) transducer, or user can install any Marposs Red Crown / Digi Crown probes device, or other measuring sensors, linear encoders with clamping diameter 8 mm or 3/8" for all third party electronic units.

Features a twin linear ball bushing mechanical transmission, spring activated with gaiters to protect the bearings - IP65. It is extremely robust, can be used in any position and can be equipped with pneumatic actuation to facilitate part loading/unloading in the measuring station.

Precision ring dowels ensure each unit can be located repeatably in any gauge or fixture assuring the measuring contact is precisely positioned every time, even when something is replaced on the system.

It is completely toolable / retoolable by the customer, using their own contact designs, or standard measuring arms and contacts can be supplied from stock.

## DISPLACEMENT SENSORS



### A124

The compact dimensions allow A124™ miniature cells to be easily integrated into measuring devices. They are easy to apply and universally applicable.

- Small dimensions (7 x 7 x 31 mm) for solving measurement tasks in limited spaces
- Simple design and low number of components
- Interchangeable measuring contacts (this saves time and costs, since the exchange does not require the removal of the entire measuring cell)
- Reliable and robust
- Maintenance-free and suitable for production use (degree of protection: IP67)

A124 miniature cells are available in full-bridge (LVDT) and half-bridge (HBT) version, as well as with USB connection or for the connection to a Digi Crown™ Network System.

### USB Line

The Marposse USB Line™ includes RedCrown2™ gauging probes and Quick Block™ transmission elements, as well as encoders and I/O interfaces (see USB Interfaces). They can connect to electronic display units and computers through a standardized virtual COM port. Marposse USB probes reach, through the electronic linearization, an even higher accuracy than inductive measuring probes. This is documented for every unit by a calibration protocol.

- PLUG & PLAY – Direct connection via compact USB plug
- EASY TO USE – Instantly applicable with Marposse display electronics. Own PC applications can be realized using a simple ASCII protocol
- For static or high sampling rate dynamic measurements (up to 1000 measuring values/s)



### Opto Crown

OptoCrown™ is an optical sensor for non-contact linear measurements. The optical sensor has a sturdy 8 mm diameter metal housing and is thus compatible with gauging probes or Dial indicators.

Opto Crown™ is based on light reflection technology. The distance between the workpiece surface and the sensor is determined by the intensity of the reflected light. Ambient light is compensated and does not affect the measurement. Opto Crown™ sensors can connect to Digi Crown™ Network System.

## BORE GAUGES LINE



### **M1 Star MBG & EBG**

The Premier Line of Mechanical (MBG) & Electronic (EBG) Bore Gauges for precision measurement of inside diameter, ovality and taper.

Standard measurable diameters range from 3 mm to 300 mm with special super light versions for diameters up to 525 mm.

The MBG is easily interfaced to a handle with any pencil probe, dial / digital indicator or the ultimate iWave wireless handle.

The EBG can be supplied wired with connector or the M1Wave wireless handle. Retooling either model can be as simple as replacing the nosepiece and contacts.

Both models are completely robust and durable, with a measuring transmission system, capable of more than 10,000,000 measuring life cycles, delivering 1,0  $\mu\text{m}$  accuracy for the MBG and 0,5  $\mu\text{m}$  accuracy for the EBG.

Choose Through -T, Blind -B or Super Blind -SB nosepiece styles to suit your needs.

A full line of accessories is available to meet all customer requirements like depth stops, depth extensions, gauge storage and fixture adaptations.

### **I-Wave2**

I-Wave2™, the innovative handle with Bluetooth® transmission and integrated colour display for commercial gauge heads with mechanical transmission system, offers the ideal solution for wireless bore measurement in harsh manufacturing environments.

- Shockproof 1.8 "TFT color display with automatic display orientation
- The measured values are simultaneously displayed on the handle and on the gauge computer, PC or tablet PC connected via Bluetooth®.
- Commercial gauge heads can be mounted on the handle within seconds using an adapter, to obtain a bore gauge, a snap gauge or a depth gauge. For frequent changeovers, the quick-change system "Star-Lock" is available.
- The handle receives the programming parameters by radio transmission from the gauge computer or tablet PC and is constantly synchronized with it to make sure that current tolerance, nominal dimension and setting master values are used at any time. The zeroing of the gauge is also monitored and synchronized.
- Smart user interface in association with Quick SPC™/E9066™, Merlin™ and Merlin Plus™: the display of the gauge to be used in the next step of the measuring sequence is automatically turned on.
- Measurement buffering when the I-Wave2™ is outside the transmission area and automatic transmission as soon as the I-Wave2™ is again in the transmission range to the measuring computer.
- Stand-alone operation mode only as a display unit is possible.
- IP67 protection degree for use in harsh manufacturing environments.
- Durable, fast-charging Lithium-Ion batteries (inductive) with non-contact charging technology. The charger serves also as a stand for the gauge.



## BORE GAUGES LINE



### I-Wave

I-Wave™ is an interface handle with Bluetooth® transmission for standard mechanical gauge heads. Any head with M10 x 1, M6 x 0.75 or M3.5 x 0.35 connecting threads can be mounted or changed within few seconds. The wireless transmission of the value allows a comfortable measurement operation on spanned or large workpieces and avoids the failure due to damaged connection cables.

- The handle is designed for use in the workshop and very robust (protection degree IP67).
- Version with Li-Ion batteries and inductive charger
- Version with standard alkaline batteries
- Reliable and secure wireless transmission

### M1 Multi - Multi Wave

Manual electronic multiple bore gauges for the measurement of diameter and geometry (ovality, taper, etc.) of machined bores in a number of sections, in one operation.

The plug gauge is composed of a nosepiece and measuring armsets featuring two or four contacts for each section to be measured. Each gauge is designed according to application or customer's specific requirements to position the measuring contacts precisely throughout the bore. Bores can be multiple (sizes), interrupted, or long and continuous.

The nosepiece is the guiding element ensuring the operator's action does not affect the result of the measurement.

The M1 Multi has been designed to be used in the harshest production environments, and features IP67 protection level (waterproof, dirt and dust sealed).

It is available in two versions:

- with cable, for connection to electronic interface units.
- wireless, featuring the Marposs "Wave" Bluetooth® transmission technology with Li-Ion batteries and inductive recharging system.



### M1 Air

Pneumatic manual bore and ring gauges are used to measure bore or shaft diameters with small tolerance classes. They are preferably used when the measurement is to be made without contact to the workpiece. The principle of pneumatic measurement is based on the detection of pressure differences, that are proportional to the variation of the distance between the nozzles of the gauge and the workpiece to be measured.

Through A/E converter modules the measured value is converted into an electronic signal and displayed on an electronic amplifier.

For special applications conical versions, bore and ring gauges with multiple measuring sections or special arrangement of the nozzles are available.

## FORKS AND RING GAUGES, BENCH GAUGES



### M3 Star

High technology, manual snap gauges for checking external diameters on round shaft type components.

The M3 Star™ is available with a slim line body design, only 10mm wide, as either a Mechanical Snap Gauge (MSG) or Electronic Snap Gauge (ESG).

Fully retoolable between diameter ranges 5-30 mm & 30-70 mm with a choice of a 10 mm or 20 mm wide, adjustable reference 'Vee'.

The 10 mm wide Vee allows the measurement to be taken within a narrow space or at a distance of only 5 mm from an edge or shoulder

The M3 Star™ has two versions to suit part tolerance requirements.

The Mechanical (MSG) system repeating to  $< 2 \mu\text{m}$ , with optional handles for dial/digital indicators; wired electronic pencil probes, or the Marposs wireless iWave device.

The Electronic (ESG) system repeating to  $< 0.5 \mu\text{m}$ , with optional handles for a cable connection, or the Marposs wireless Wave device.

### M4 Star

Mechanical and electronic manual ring gauges for checking external diameters on pin and shaft type parts in the range 4 to 125 mm. The M4 Star™ design can measure, close to a shoulder, at minimum 1 mm distance and then variably up to 6 mm from a face in the standard version.

It can be used directly on the work piece, by sliding over the diameter to be measured, or be fixture mounted, allowing a short part to be checked.

Special design versions are available for larger diameters.

The Mechanical Ring Gauge (MRG) and Electronic Ring Gauge (ERG) uses the same handle arrangement as the M3Star Snap Gauges. MRG has handles for dial/digital indicators; wired electronic pencil probes or the Marposs wireless iWave™ device.

ERG has handles for a cable connection, or the Marposs wireless Wave device.



### Quick Set Line

Modular measuring system conceived to allow rapid delivery of a mechanical gauging fixture without traditional design and build. Component modules are built for shop floor use, for easy assembly by any user. They are available from stock, off the shelf, for immediate fixture build, allowing simple to semi-complex fixtures to be created. Once assembled to suit the specific part gauging requirements, the system delivers and ensures consistent part quality. With no design & build time lines, the user achieves cost reductions and gains application flexibility (add or subtract modules as required). The system is available in three basic & different configurations:

- horizontal and vertical types for multidimensional and geometric checking of shaft-like parts
- chuck type for multidimensional and geometric checking on parts that cannot be referenced horizontally such as bushings, pistons and cylindrical parts that are manufactured with a flange.
- universal type for multidimensional and geometric checking on cylindrical parts such as bushings, bearings, hubs, gear wheels.

# INDICATORS AND ANALOG DISPLAY UNIT



## TD

High quality dial indicators, whose design, accurate components, precision engineered mechanism and robust construction offer accuracy, reliability, durability and long working life.

Standard features for all models are:

- Adjustable tolerance markers to set tolerance limits
- Hardened, stainless steel mounting shank and measuring spindle are corrosion proof
- Lapped spindle increasing resistance to wear
- Sturdy metal housing

Available types are:

- High precision dial indicators
- Dial comparator gauges
- Error free dial indicators

## Quick Digit

Digital indicators with a highly accurate measuring system featuring:

- 5 mm and 12,5 mm measuring range (other ranges available on request).
- 0,001 / 0,0001 mm resolution.
- Replaceable 3V lithium battery.
- External power supply using Power type cable for data transmission.
- RS232 compatible output for data transmission.

Functions:

- Preset
- Zero setting at any point within the measuring range
- Automatic switch-off without loss of the original value
- REF I / REF II dual reference point
- Dynamic Min./Max./TIR measuring mode
- Setting and display of tolerance limits (not available for 5 mm model)
- Measuring value classification through tolerance indicator lights (green, yellow, red) (not available for 5 mm model)
- Input of a multiplicative coefficient
- Transmission of the measuring value by Bluetooth® technology (not available for 5 mm model)



## E18N

Compact, portable electronic analog display unit for Marposs single full-bridge (LVDT) manual gauges, such as bore gauges M1 Electron and M1 Star, snap gauges M3 Star, ring gauges M4 and M4 Star, and Red Crown/Red Crown2 pencil probes with measuring range up to  $\pm 1$  mm.

Adjustable tolerance markers, a knob to select the scale and a zero-setting potentiometer allow easy set up and immediate use of the unit.

Equipped with rechargeable battery for maximum use flexibility throughout the factory, this version features Lithium-Ion battery lasting approximately 36 hours, with minimized recharging times (3 hours for a full charge), and low-battery sound alarm.



## ELECTRONIC DISPLAY UNITS



### Quick Read

Compact slim electronic display unit with a thickness of only 12 mm, complete with 3-colour (green, yellow and red) analogue display and 8-digit alphanumeric display providing clear definition and easy reading of the measurement results. Using the local keypad, the Quick Read™ can be easily programmed to set the digital display resolution, measuring unit, tolerance limits, full scale range and master deviations.

The unit will also provide:

- A coefficient when a reading is not 1 to 1.
- Absolute or comparative reading of the measurement result.
- The data format for serial transmission (ASCII or binary format).

It is available with a remote probe attached to the main display by means of a standard 2 metre cable or as a microcolumn version allowing to connect MARPOSS standard probes with half-bridge transducer ranging from  $\pm 0,25$  mm (.010") to  $\pm 5$  mm (.200").

Two microcolumn versions are available :

- For connection of one sensor to carry out one static measurement .
- For connection of one or two sensors to carry out one static or dynamic measurement [Hold, Max, min, Maxmin, (Max- min)/2, (Max+ min)/2].

### E4N

Microprocessor column designed to display a single dimensional or geometrical condition, featuring a 101-Led three colour bargraph scale and an eight-digit large display. It can accommodate

- different LVDT or HBT transducer modules provided with 1, 2 or 4 input channels
- a one channel air to electronic module

It is equipped with a wide range of interfaces, Digimatic and analog, RS232-C, Relay/BCD and for external push-buttons or foot-switches.



### Duo

Extremely compact and powerful, 4.3" true flat touch screen unit for display and storage of measuring data acquired from bore, snap and ring gauges.

Duo™ can connect one or two probes or gauges, and is the best choice for simple manual applications allowing up to two measurements to be simultaneously displayed.

Duo™ guarantees premium features at an affordable price being as small as a smartphone.

- Intuitive user interface
- Two direct input channels for LVDT/HBT sensors
- Three-colour analog and digital measurement display
- Extremely clear visualization of the measurement status
- 2IN/2OUT for cycle management, 1 input for a footswitch
- Optional field-bus connection
- Suitable for the workshop (IP54 front panel)
- Designed for portable use, it can be powered by an external battery pack (16000 mAh recommended to guarantee one working shift)

# GAUGE COMPUTERS



## Nemo

Ultra compact embedded gauge computer with 5.7" LCD Display, designed for simple measuring applications up to 16 sensor inputs and 8 bargraph style measurement displays from traditional analogue & digital transducers and wireless measurement devices. Measurement data can be stored locally in a built-in Secure Digital micro card or uploaded to a LAN network. Its touch-screen human interface is designed to allow programming and acquire measurements without any additional input/command devices.

## Merlin Family

Merlin™, Merlin Plus™ and Merlin Plus Box™ are compact gauge computers with data storage and statistics capability. Different Data acquisition systems allow the connection of a variety of measuring devices, such as probes, digital indicators, digital calipers, altimeters or measuring devices with Bluetooth® transmission.

No moving parts (no fan, a flash Memory) guarantee for extreme robustness (IP65 Front panel) and compact dimensions of the units.

The software is very intuitive and easy to use through the touch-screen Display, and provides a clear representation of the measuring values, as well as extensive statistical evaluations with graphic visualization (Histogram, control chart, single value chart...). The batch or order management allows separation of the evaluations e.g. per machine or production lot.

The measuring data can be stored in .dfq or .csv format in the internal memory, on a USB stick or on the network. For the export of the data in the Q-DAS ASCII transfer format all common K-fields are supported. Various export strategies can be set (e.g. after each sample). The following models are available:

- Merlin™ with 8.4" touch screen display, Microsoft® Windows® Embedded Compact 7 operating system
- Merlin Plus™ with 12.1 "True-Flat touch-screen display, Microsoft® Windows® Embedded Standard 7 operating system, supporting the software tool Merlin Plus Designer for optimized operator guidance
- Merlin Plus Box™, barebone industrial PC for use with an external touch screen monitor, Microsoft® Windows® Embedded Standard 7 operating system, supporting the software tool Merlin Plus Designer for optimized user guidance

With Merlin Plus Designer stand-alone software tool, the default standard display pages of Merlin Plus™ and Merlin Plus Box™, as well as of the Merlin Plus Software™, can be replaced by customized customer-specific display pages.

To optimize user guidance, workpiece images can for example be included, where the features to be measured become marked. Many other design options, such as different measuring value display bars, the insertion of text fields, graphics, control charts or histograms etc., allow to optimally display the measuring value according to the operator's needs.

The following display pages can be prepared:

- a measuring value display page for a complete part program
- several measuring value display pages for individual measuring steps
- a summary page, e.g. with the workpiece status
- several display pages for individual zeroing steps



# INTERFACE BOXES FOR DATA ACQUISITION



## Merlin Plus Software

Merlin Plus Software™ combines the ease of use and the abilities of the Merlin Plus™ gauge computer with the capability of running on customer PC with various display formats. A high degree of customization is possible thanks to Merlin Designer™, a Marposs utility expressly created to produce dedicated measuring pages. The human-machine interface offers touch-screen operation or traditional mouse / keyboard commands to acquire measurements without any additional input devices.

Merlin Plus Software™ is capable of:

- collecting data acquired by measurement devices, made by Marposs or third-parties
- delivering innovative software features capable of acquiring data from wired and wireless measurement devices
- providing a basic statistical control software (featuring graphic display and numeric summary, Gage Capability and R&R studies facilities, data segregation, part counters) and an easy-to-use user interface supporting both multi-language and multi-user management

## Easy Box

USB interface boxes designed for easy and economical management of inductive and incremental transducers, air gauges, Digimatic and serial gauges, I/O signals, thermocouples via a USB port. The power to the measurement devices and Easy Boxes™ is provided through a standard USB cable connection to a Marposs amplifier or PC.

The measurement values are transmitted through the same USB cable from each box. Some models may require an external power supply according to the type of connected transducer or device being operated. A data trigger can be made with the external signal of a footswitch or with a data request from the host PC.



## USB Interface

Marposs USB interfaces are designed for the uncomplicated connection of incremental transducers or the management of I/O signals. The interface electronics are integrated into the standard USB connector and can be used immediately with Marposs display units. Own PC applications are realized via a simple, serial protocol.

- U1-E (encoder interface) for the connection of incremental sensors such as displacement, rotary or torque encoders (e.g. from Heidenhain or Magnescale).
- U2-I/O (input / output interface) has two I/O interfaces which can be configured independently of each other as input or output
- U1-FS (footswitch interface) is a footswitch with USB interface

## INTERFACE BOXES FOR DATA ACQUISITION



### **Digi Crown Network System**

Modular digital network with easily assembled components to create your customized measurement system using a wide range of standard interfaces with different types of input signals.

DigiCrown2™ sensors are automatically recognized by the system and can be changed without any reprogramming or errors. The system recognizes up to 744 inputs.

Modular interface modules accept various different types of sensors such as analogue LVDTs, incremental encoders, analogue signal devices and is able to manage INPUT / OUTPUT signals to any PLC.

The communication is based on RS485 serial protocols. The network interface to a PC (commercial or industrial) is through PCI cards, ISA, RS232 interfaces (easily integrated with PLC controls), USB High Speed and Ethernet.

Using USB HS guarantees a dynamic synchronized acquisition at a speed of 4,000 samples / sec. For applications with a PC, Marposs SW packages & SDK's are available for integration into 32 or 64 bit systems.

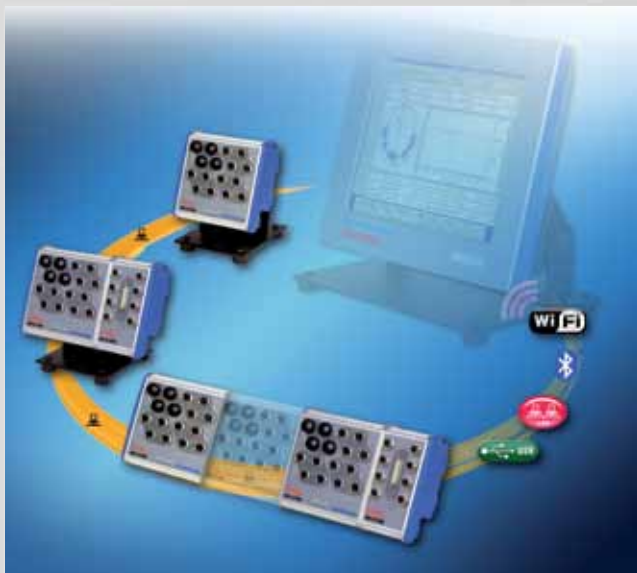
### **TCI**

A line of Transducer Conditioning Interfaces available with 1, 4, or 8 inputs to accept LVDT or HBT pencil probe sensors. The input converts the measurement value into a signal, compatible with most analogue cards for data acquisition. The output of each unit provides a direct signal (Voltage:  $\pm 5\text{Vdc}$ ,  $\pm 10\text{Vdc}$ ,  $0-10\text{Vdc}$ ; Current:  $4-20\text{mA}$ ), proportional to the measurement value of the sensor at the input stage.

The PLC analogue card can receive the output signal from the TCI™ in order to control and manage automatic processes and can be incorporated into SCADA controlled systems. TCI™ interfaces are PLUG&PLAY units.

Each unit is calibrated specifically for the sensor being used.

This offers quicker installation, lowers machine downtime and reduces maintenance operations.



### **GagePod**

GagePod™ is a modular data acquisition system for simple, manual measuring equipments, as well as for complex, fully automated measuring and testing systems.

The GagePod™ modules are directly assembled together according to the application and without connection cable. Through USB or Ethernet the GagePod™ can connect to a Marposs E9066™ industrial PC or other computers running the Quick SPC™ software package.

GagePod™ modules include:

- 16-channel sensor module
- 16 and 32 Inputs / Outputs (24VDC opto-isolated) modules
- Linear/rotary encoder module
- Motor driver module
- Fieldbus module

# E9066 INDUSTRIAL COMPUTERS AND SPC SOFTWARE



## E9066E

The E9066E™ is a fanless and diskless industrial computer providing a compact, economic and no compromise solution for any shop-floor environment.

Designed on leading edge, embedded PC technology, it features state of the art 64 bit industrial-grade platform and Microsoft® Windows® 7-64 Embedded operating system, and is supplied with the Quick SPC software package for measurement, SPC and quality control.

The E9066E uses an industry-grade ultra low-power quad-core processor, providing high throughput for complex calculations and graphical applications alike, without impacting system performance.

Connectivity is the best in its class: 5 USB ports, 2 Ethernet Gigabit ports, 1 RS232 port, up to two solid-state storage devices (Compact Flash or SSD).

Industrial fieldbus is also supported using specific fieldbus modules.

The E9066E™ is provided in a sealed, compact, shop-floor proof enclosure (IP65), and readily adapted for bench-mount or swing-arm solutions using industry standard, VESA-compliant supports.

E9066E™ is the ideal complement to the GagePod™ and Easy Box™ interface boxes.

## E9066T

E9066T™ is a high-performance, maintenance-free Industrial PC without wear & tear parts like fans and traditional hard disks.

The Trueflat front panel with its integrated touchscreen and IP66 protection delivers the best and most reliable user-interface experience.

An integrated UPS (Uninterruptible Power Supply) with industrial grade battery pack provide battery backup upon power failure.

E9066T features full-power Intel® Core™ i3, i5 or i7 processors providing “no compromise” performance, even for the most mission-critical, demanding application, and is supplied with the Quick SPC software package for measurement, SPC and quality control.

In combination with a specifically designed, integrated heatsink, they guarantee for continuous use up to 50°C (122 °F).

The E9066T can be panel-mounted or provided in a Marposs-standard IP54 shop-proof cabinet, for benchmount or swing-arm solutions using industry standard supports.

The E9066T-BB, a blind-panel version without display, provides wall-mount and DIN-rail mounting solutions as well.



## Quick SPC

Quick SPC™ for Windows® is a suite of software products designed to comply with any requirement ranging from simple measurement acquisition to complex gauging applications. Framed in a simple, wizard driven, common user interface it is possible to complement the base product by means of software Add-ons purposely conceived for specialized industry fields.

Main characteristics are:

- Templates and wizard driven programming interfaces.
- Safe and reliable with checks on programmed data consistency, data back-up and restore utility, multi-level user security access.
- Fully customizable software environment matching current and future metrological and statistical needs: page layouts, short cuts, hot tabs, application templates, reports, customers' based statistical evaluations and more.
- Capable of connecting to a variety of analogue and digital measuring devices and machine tool CNC's.
- Operator prompts with multimedia files (pictorials, drawings, photos, movies).
- Comprehensive fully integrated software modules for data acquisition, measurement elaboration, statistical analysis, machine tool compensation, network integration and data storage.

# CROSS REFERENCE TABLE: SENSORS - INTERFACE UNITS - DISPLAY UNITS

A124	D124	QUICK BLOCK	DIGI BLOCK	HAND HELD GAUGES	RED CROWN 2	DIGI CROWN 2	RED CROWN 2 USB	INTERFACE TYPE	#CH	ACQUISITION TIME
		●		●	●			QUICK READ	1-2	2 ms
●		●		●	●	● (*)		E4N	1÷4	2 ms
		●	●	●	●	●		DUO	1-2	2 ms
●		●		●	●	● (*)		TC11 TC14 TC18	1 4 8	2 ms
●	●	●	●	●	●	● (*)		GAGE POD	16	0,25 ms
● (****)		●		●	●	● (*)		EASY BOX	4	1 ms
	●	● (***)	●	●	● (**)	●		DIGI NET	1÷744	0,25 ms
							1÷31		0,25 ms	
							1÷8		0,25 ms	
							1÷744		0,25 ms	
		●					●		1	1 ms

(\*) Digi Crown 2 probes can also be connected to any Marposs standard LVDT interfaces

(\*\*) Red Crown 2 LVDT probes can be connected to Digi Crown Network System by dedicated programming

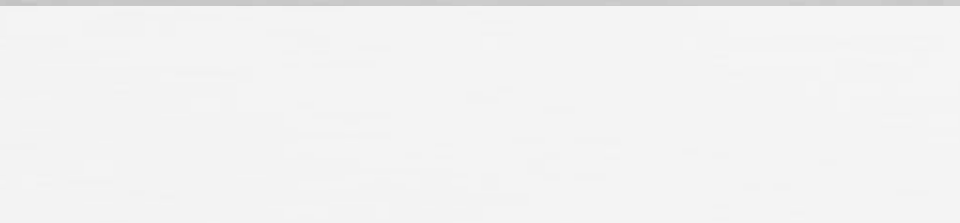
(\*\*\*) Quick Block LVDT can be connected to Digi Crown Network System by dedicated programming

(\*\*\*\*) A124 can be connected to Easy Box for LVDT and HBT TESA compatible transducers

OUTPUT TYPE	ACQUISITION SW	DISPLAY UNIT	VISUALIZATION TYPE
SERIAL 232	EMBEDED	QUICK READ	LED BARGRAPH + DIGITAL DISPLAY
SERIAL 232 / DIGIMATIC / BCD	EMBEDED	E4N	LED BARGRAPH + DIGITAL DISPLAY
SERIAL 232 / FIELD BUS	EMBEDED	DUO	4.3" LCD DISPLAY
ANALOGUE (VOLTAGE / CURRENT)	-		PLC/CNC
USB ETHERNET WIFI	MARPOSS ACQ. SW	E9066 INDUSTRIAL PC / COMMERCIAL PC	LCD DISPLAY
USB	MARPOSS ACQ. SW	E9066 INDUSTRIAL PC / COMMERCIAL PC	LCD DISPLAY
USB	EMBEDED	MERLIN FAMILY	LCD DISPLAY
USB	EMBEDED	NEMO	LCD DISPLAY
USB/232/PCI CARD/ISA CARD/ ETHERNET	MARPOSS ACQ. SW	E9066 INDUSTRIAL PC / COMMERCIAL PC	LCD DISPLAY
USB/232	EMBEDED	MERLIN FAMILY	LCD DISPLAY
DIRECT	EMBEDED	NEMO	5,7" LCD DISPLAY
USB/232	MADE BY PROTOCOL COMMAND	PLC	PLC
USB	MARPOSS ACQ. SW	NEMO/MERLIN FAMILY/E9066/INDUSTRIAL PC/ PLC/COMMERCIAL PC/ANY HOST USB	DEPENDING ON THE DISPLAY UNIT



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