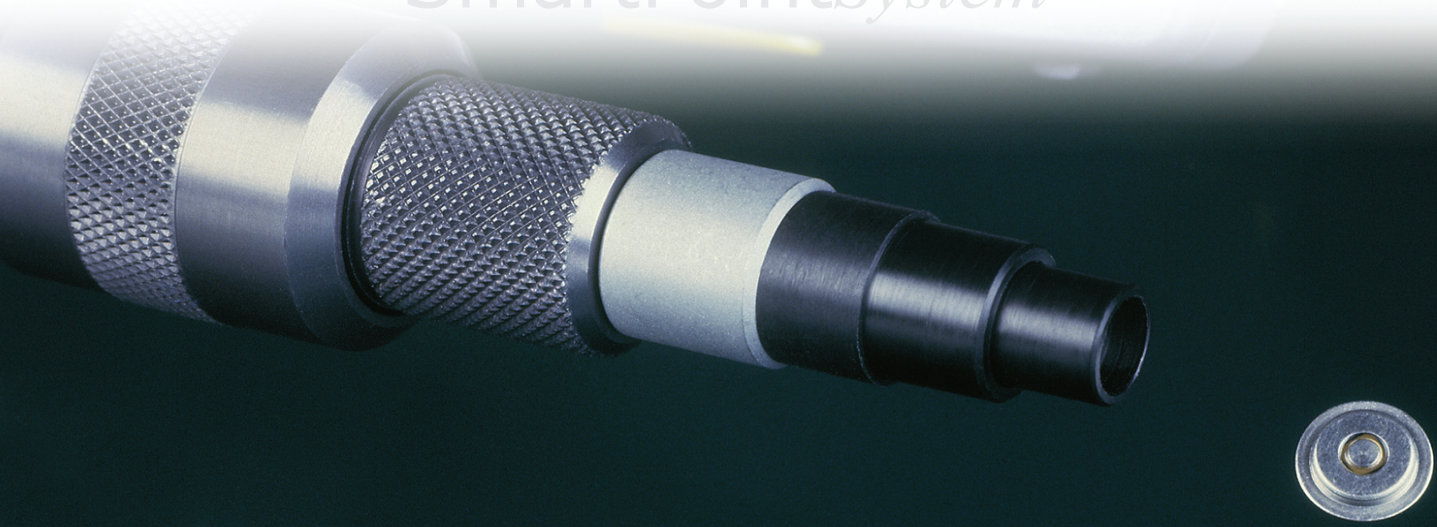# SmartPoint®*System*

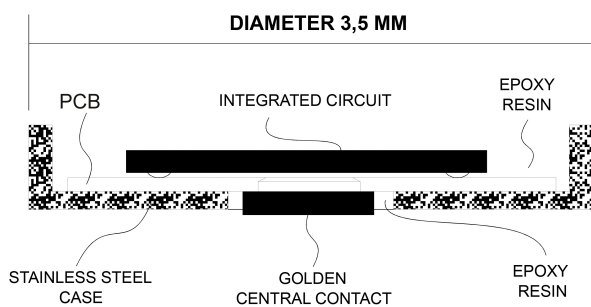## what is it?

The **Smart Point® System** is an electronic tagging system. It's innovative and extremely resistant characteristics allow a versatile and effective use in several industrial applications.

what does it look like?

The **Smart Point®** is an extremely miniaturised electronic memory of the Eeprom type, encapsulated in stainless steel armour, which can cope with the most taxing working environment. It is smaller than a shirt's button.

DIAMETER 3,5 MM

PCB INTEGRATED CIRCUIT EPOXY RESIN

STAINLESS STEEL CASE GOLDEN CENTRAL CONTACT EPOXY RESIN

The tag can be placed almost anywhere through special glue or mechanical anchorage. The memory, which can contain up to 58 or 488 characters, is organised in a maximum of four pages, each protected by two access codes. The memorised data is retained for more than 100 years (at a $+25\,°C$) renewed at each read/write operation.

The **Smart Point®** has been tested to withstand the following:
– Ultraviolet Rays (NIHS 96-50)
– Chemical Agents (ISO 4538 – NIHS 96-50)

– Magnetic Fields (ISO 764 – 4800 A/m)
– Thermal Shocks
– Condensation (ISO 3160-2)
– Salinity (ISO 9227)
– Tropical Climate (DIN 50017)
– Sterilisation Processes
– Mechanical Vibrations (IEC 68-2-6)
– Mechanical Shocks (ISO 1413 – NIHS 91-10)
– X Rays
– Drops in Pressure (Depressurisation)
– High pressure (NIHS 92-11 - ISO 6425)
– Electrostatic Discharges (MIL 883 method 3015)

how does it work?

Read and write operations are performed by contact trough an appropriate interface device, the **Smart Point®** pen, which connects to a Palm Pc or a Personal Computer.

The Palm PC communicates directly with the **Smart Point®** through a suitable software, tailor-made for the customer's application's needs.

The communication software is fully compatible with any current database platform.

the applications

The **Smart Point® Solution** lends itself to several industrial applications:

* Identification of industrial machinery, devices, instruments, components etc.

The **Smart Point®** allows an immediate and unmistakable identification and for this purpose can also memorise information such as: serial number, part number, model, make, etc. The data is guaranteed to be retained by the **Smart Point®** under the most strenuous working conditions.

* Recording and Managing the working process and Updating the procedures.

The **Smart Point®** can be an alternative or a confirmation to the paper record that keeps track of the information inherent to the working process. It also keeps on record the several quantity\quality controls performed at critical stages of the process.
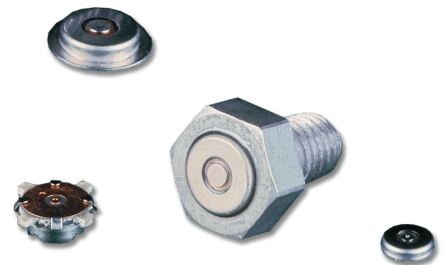
To guarantee the accurate functionality of any industrial equipment, it is of paramount importance to guarantee the efficiency and reliability of each component.

To ensure this reliability in the long term, as well as a correct use, routine and scheduled checks are to be performed. Even the most dependable piece of equipment can incur in faults, and in the majority of the cases this is due to ineffective or absent maintenance.

The **Smart Point®** offers an efficient management of the maintenance program, and guarantees a prompt renewal of the information relative to the process. Bringing Informatics in the maintenance procedure generates several technical and economical advantages:

* Faultless, instant and regular update of the database:
* Riddance of the paperwork;
* Automatic record of who performed what check and when.

Smart Point®SA

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