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**Sensor Box iDaq4Geo**

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iDaq4Geo is the new interface entirely developed by TQM Itaca Technology srl in order to manage the dialogue with everything which can be connected to a control station, like probes, laser heads, encoder, operator keypads, pedal for start/stop measure, sensors, input devices, etc...

The system is optimized to manage dynamic controls with the acquisition at the same time of the angular position by encoder and of the dimensional values by measuring sensors (contact sensors or not-contact sensors).

The I/O modules guarantee the dialogue with the automatic systems of load and unload, making iDaq4Geo suitable for the management of the 100% control directly in a production line.

iDaq4Geo has a modular structure and it can integrate the following devices:

- Power supply module, with output 24 Volt
- Module LAN 10/100
- CPU with encoder board synchronized with A/D
- I/O board, up to max 16 In and 16 Out
- Input for pedal of start/stop measure
- 16 bit Analog/Digital Converter
- Signal amplifier for the connection of HBT probes (max. 40 probes)

The connection with the PC is made by Ethernet 10/100, the fastest and safest system available nowadays, which solves all the problems of distance between the PC and the gauge.

iDaq4Geo is the standard interface for the Itageo 6<sup>©</sup> stations and for the Itastat 6 Measure stations with high performance.

There are also available examples of codes in C and C#: on demand it's possible to develop drivers for any measuring software available nowadays.





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### iDaq4Geo Data Sheet

Power Supply	
Voltage	Consumption
110 / 230 V, 50 – 60 Hz	100 W max.
Power supply module	
Output 24 V max 1A	
CPU module	
Encoder TTL 5 V	
Ethernet 10/100 Mbit	
Sampling Rate	
Adjustable (max 25KHz) or triggered by encoder	
Inputs HBT standard Tesa (max 40 channels for statistical analysis – 32 channels for dynamic measuring)	


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Gain	x0.5, x1, x5, x10	
Voltage inputs (max 40 Inputs)		
Range	± 10 V	
Input/Output (max 16 In/16 Out)		
Devices	Voltage	Power
Input opto-isolated	0/24 V	
Output relays	24 V	24 Watt max.
Input opto-isolated for pedal		
iDaq4Geo R1: SIZE (cm): 33,5 x 32.5 (with handles) h. 15 cm		
iDaq4Geo R2: SIZE (cm): 36,7 x 40,7 (with handles) h. 19 cm		