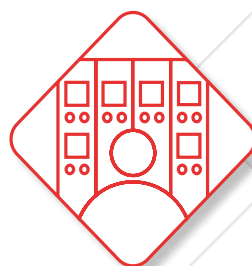


## Junction and Measurement Boxes



[www.pizzi-instruments.it](http://www.pizzi-instruments.it)

Instruments and Systems for Geotechnical and Structural

## Junction and Measurement Boxes



### Description

Our product range includes several specifically designed devices which perform the function of collecting, switching and measuring for the various sensors manufactured by Pizzi Instruments. The boxes are available in resin as standard and can be provided in stainless steel or aluminium on request.

The junction and measurement boxes collect one or more instrument cables from one or more sensors and combine them into a single multi-core cable for transfer to remote locations. The boxes are provided with appropriate diameter cable glands, both for incoming signal cables, and multi-core exit cables.

If provided with appropriate terminal block with bushings, it is also possible to use a portable read out unit for local manual measurement.

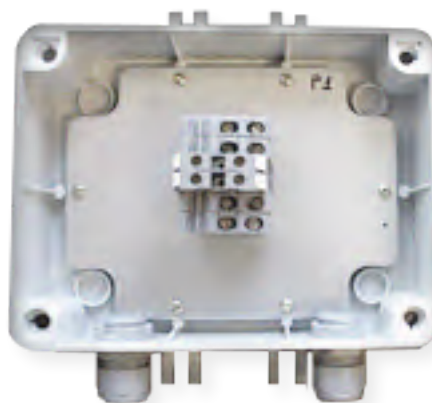
The boxes accept instruments of all types: vibrating wire, analog, digital, resistance thermometers, crack meters, strain gauges, piezometers, coordinometers for pendulums etc.

The use of these boxes enables the rationalization of the system, thus allowing the immediate organization of provisional (and definitive) measurement points and the optimization of costs for the cables and the entire signal distribution system.

## Applications

Our instruments can be used in all monitoring systems, both in protected environments and in harsh conditions, in simple or in structured systems, for structural, geotechnical and geological monitoring.

- Dams
- Tunnels
- Road and rail embankments
- Bridges
- Monuments
- Public and civil constructions
- Archaeological areas
- Ancient artifacts
- Different applications



## Features and benefits

Junction and measure panels are made by a box of adequate size, with IP56 protection as standard (higher protection degree on request), of type Gewiss or similar (optional: aluminum or steel). The panels equipped for measurement contain terminal blocks mounted on DIN bar for the connection of conductors and measuring bushings for connection to the contact pin of the portable units.

Junction and measure boxes are made of an appropriately sized waterproof enclosure with IP56 protection as standard (higher protection on request), Gewiss type or similar (aluminum/steel optional).

The measurement boxes contain terminal blocks mounted on a DIN bar for the connection of conductors and measuring bushings for connection by PIN to the portable units. They are available in standard version for accepting 1-2-3-5-10-15-20 instruments connected with 2 or 3 wires cables. Other options on request. The entrance of the cables coming from the sensors or other boxes. Is realised by cable glands fixed to the side walls of the boxes themselves.

All boxes produced by us allow the gradual insertion of instruments during the installation phase. If necessary, they can be equipped with a bronze filter for compensating barometric pressure.

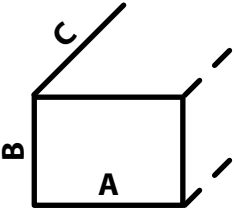
Simple and functional, they have an unscrewable cover (hinged cover on request) and contact measuring bushings.

## Operation

Simply unscrew the cover and insert the terminals of the read out unit in the busings of the instrument you want to measure.

## Technical specification



	MOD.	A	B	C	Weight (Kg)
	P5	250 mm	200	140 mm	3,8
	P10	300 mm	250	140 mm	4,8
	P20	400 mm	300	140 mm	8
	P30	400 mm	300	140 mm	8,5
	P >30	Special execution			

Protection Degree

IP 56

Protection against indirect contacts

Double Insulation

Installation temperature

max +60 °C; min -25 °C

Maximum voltage of use (Ue)

750 V

Rated insulation voltage Ui:

750 V

Material

GW PLAST 120, Halogen Free according to CEI EN 50267-2-2

Shock resistance

IK 08 according to EN 62262

Heat resistance

Thermo-pressure with ball 110°C

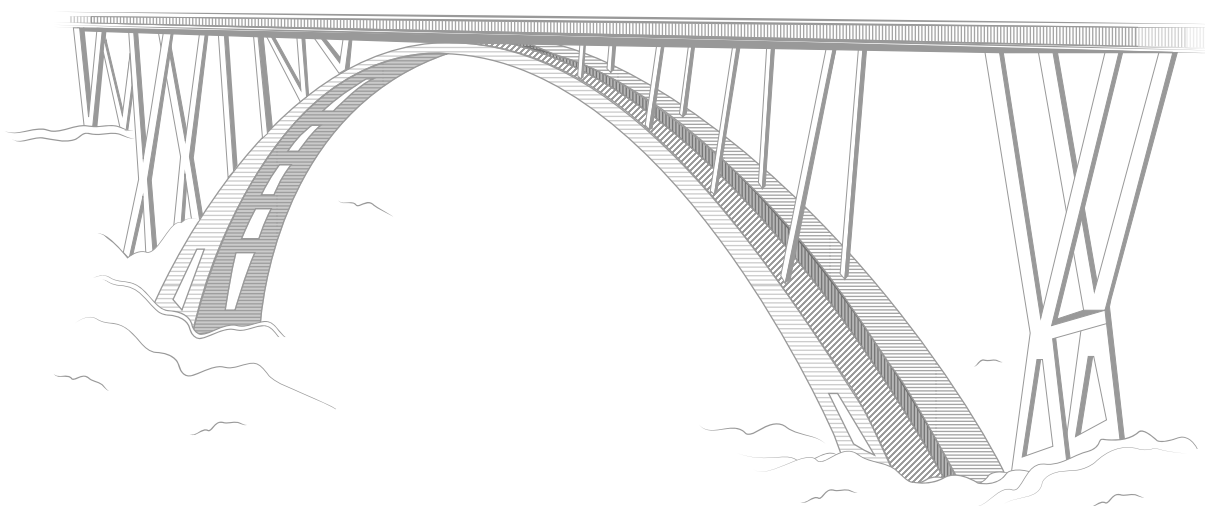
Resistance to abnormal heat and fire

Glow wire test 650°C

## The Company

**For more than 40 years we have been designing and producing precision instruments for monitoring large structures sold all over the world.**

Accuracy in design, efficiency in construction, reliability in management, these are the prerogatives that every big project must have and that structural monitoring systems must guarantee



### Technical assistance

If you have any requests or questions about our instruments or if you have special needs that require different solutions from the standard, please contact us. Our team will provide all the necessary information and will be very happy to work with you to study, develop and customize instruments and solutions suitable for your specific needs.

All data present in the sheets could change without notice.

Please check the release carefully and for more details contact Pizzi Instruments.

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