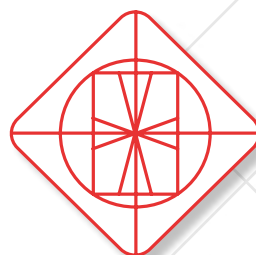


Measurement Target with Remote movement Control



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Instruments and Systems for Geotechnical and Structural

Measurement Target with Remote movement Control



Description

In traditional optical collimation, the use of the measuring target is manual. On specific request of a customer, we designed and produced two motorized targets, controllable by remote, which allow measurement by a single person, giving the option to both remotely monitor the movement of targets and also to view, on the target itself, the numerical value indicating its position with respect to "zero" on the scale.

Targets with horizontal movement and rotational movement are also available (for collimation of more points), both automated.

The movement of the target screen is made possible by a 24V motor.

Applications

The motorized target is used with optical collimation systems. The main applications of this type of monitoring are:

- Dams
- Bridges
- Bulkheads
- Tunnels
- Embankments
- Diaphragms
- Viaducts
- Various other

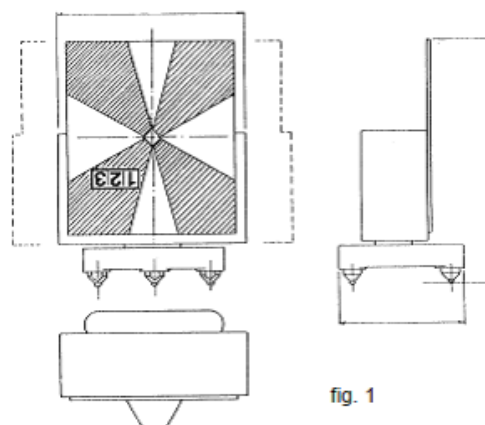


fig. 1

Features and benefits

- High resolution of the optical system
- High precision measurements
- Strength and stability
- Easy to use
- Rapid measurement

Principio di misura

The operating principle of this instrument is very simple. Movement of the movable target carriage is by a motorization system inside the target itself.

This system, conveniently connected by 3 wire cable to an appropriate 'control device', allows screen movement in the two opposite directions of the horizontal plane; a 3-digit mechanical index (each digit 15mm high), visible on the screen of the target, provides the measurement value via the optical collimator.

Using the motorized target, two different measuring systems are possible:

a) with just one target, even though many points are to be monitored;

b) with as many targets as points to be monitored

In these two cases, based on the system chosen, two different remote controls are available:

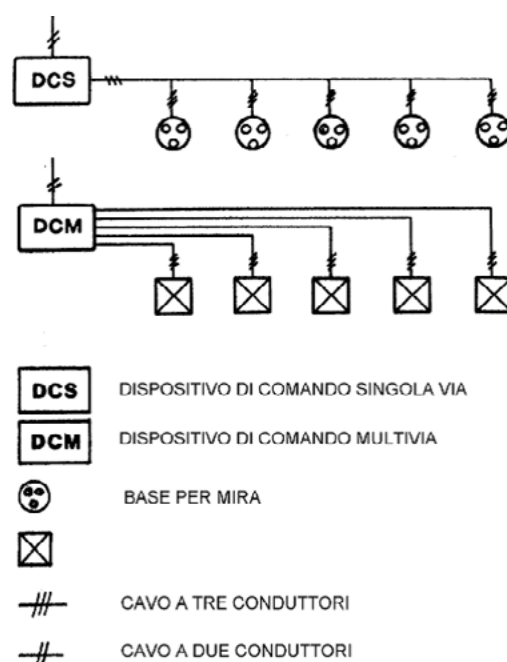
DCS = "single way" Control device

DCM = "multi-way" Control device

In the first case, the remote control (DCS) is comprised of only one element of maneuver and a single input cable; in the second case (DCM), the remote control is also equipped with a switching device, 5-routes in the standard version, and the same number of inputs for connecting cables to the target.

The target comes supplied with a fixed and movable connector for connection to the power supply line.

Schemi di collegamento



Technical features

Measurement base:	700 mm (optional 300 mm)
Measurement range	±45 mm
Resolution:	0,1 mm
Numerator	3 digits
Dimension of the casing	30 x 30 x 22 cm

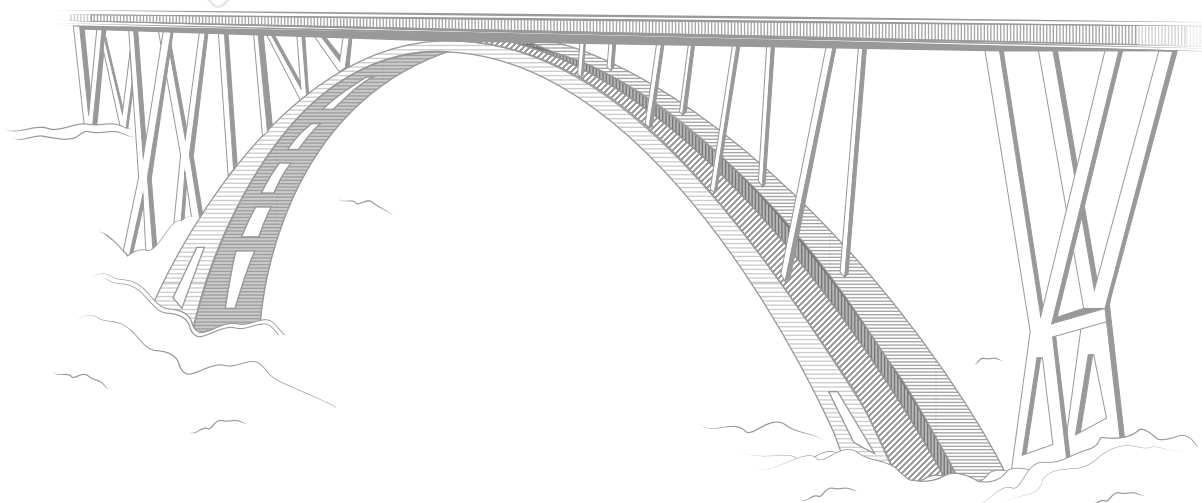
Accessories and related products

DCS	"Single way" control device
DCM	"Multi way" control devi
Support base for target for wall	For the positioning of the target
Electrical cable	For the connection between the target and DCS-DC

The Company

For over 40 years we have been producing precision and large facility monitoring instruments sold throughout the world.

Accuracy in design, efficiency in construction, reliability in management; these are the prerogatives that every major work 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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