

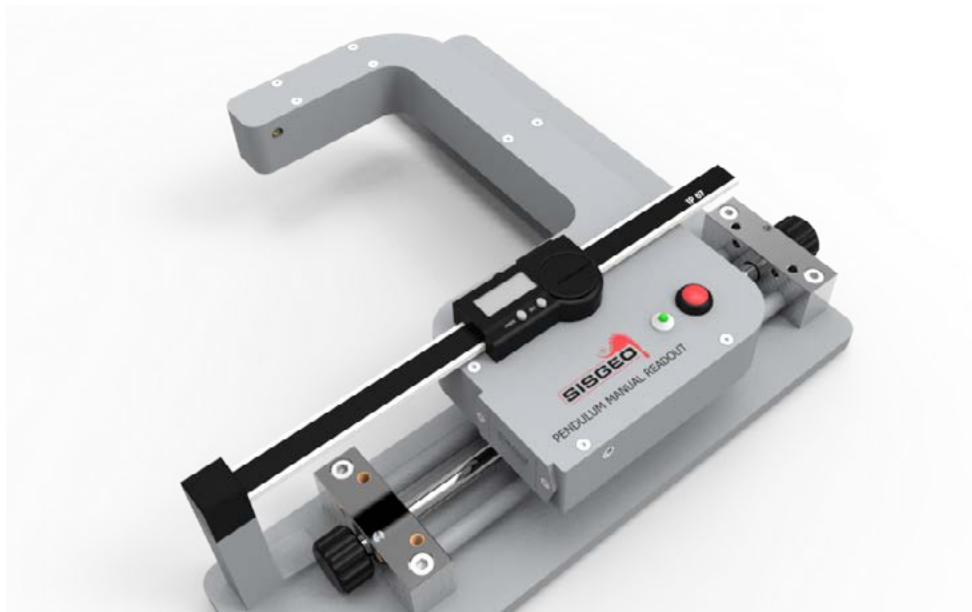
COORD



## OPTICAL PENDULUM READOUT

INCLINOMETERS  
& PENDULUMS





## OPTICAL PENDULUM READOUT

Optical pendulum readout (coordinometer) is a reliable and simple instrument for manual readings of pendulum systems.

It allows calculation of horizontal movements of the dam with respect to the pendulums wire, both in the upstream-downstream directions and left bank-right bank directions. The coordinates (X, Y) of the pendulum wire position, are determined by means of a pairs of photocells mounted on a high accuracy slide.

Optical pendulum readout can be utilized for in-place installation, removable measurements in different locations or for temporary manual measurement when automatic TEL310 pendulum readout is under service.

### APPLICATIONS

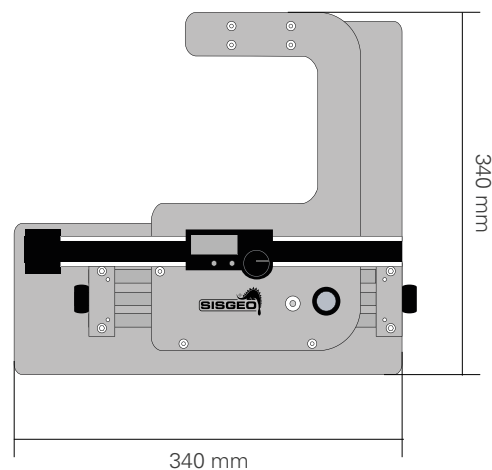
- Arch dams
- Concrete dams
- Skyscrapers
- Slender structures
- Bell towers
- Minarets

### FEATURES

- Simple to use and reliable
- Removable in order to take readings in different location
- Calibration frame gives information on instrument accuracy
- Suitable to substitute TEL310 under service

## TECHNICAL SPECIFICATIONS





Measuring system	OS9RTB15000
Measurement area	contactless (pair of photocells)
Gauge resolution	X-axis: 0-150 mm ( $\pm 75$ mm) Y-axis: 0-150 mm ( $\pm 75$ mm)
Gauge accuracy	0.01 mm
Gauge protection	<0.1 mm
Temp. operating range	IP67
Detectable wire	-20°C +60°C
Material	minimum 1 mm diam
Dimensions	aluminium
Weight	340x340x115mm
	3.5 kg

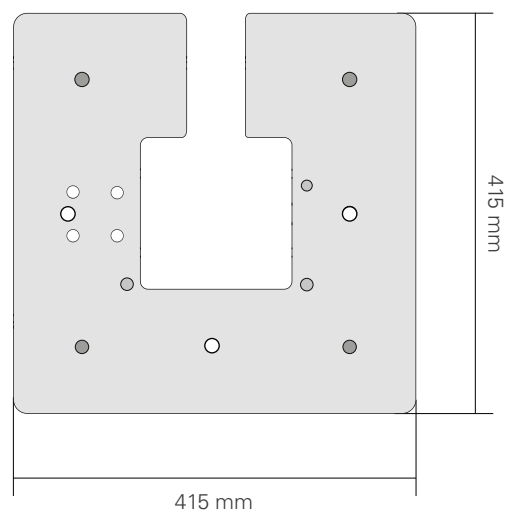


## ACCESSORIES AND SPARE PARTS

### OS9RTPLT100 SUPPORT BASE PLATE

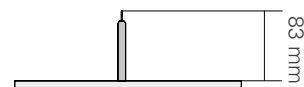
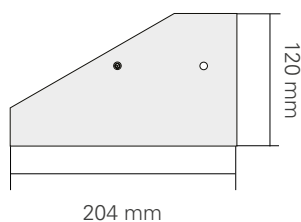
Support plate for manual pendulum readout (coordinometer).  
Material: galvanized steel  
Dimension: 415x415x10 mm (LxWxH)

-  Reference holes for placing the coordinometer
-  Holes for fixing the plate on TEL310 telecoordinometer support
-  Holes for installation and fixing
-  Reference holes for placing the calibration frame

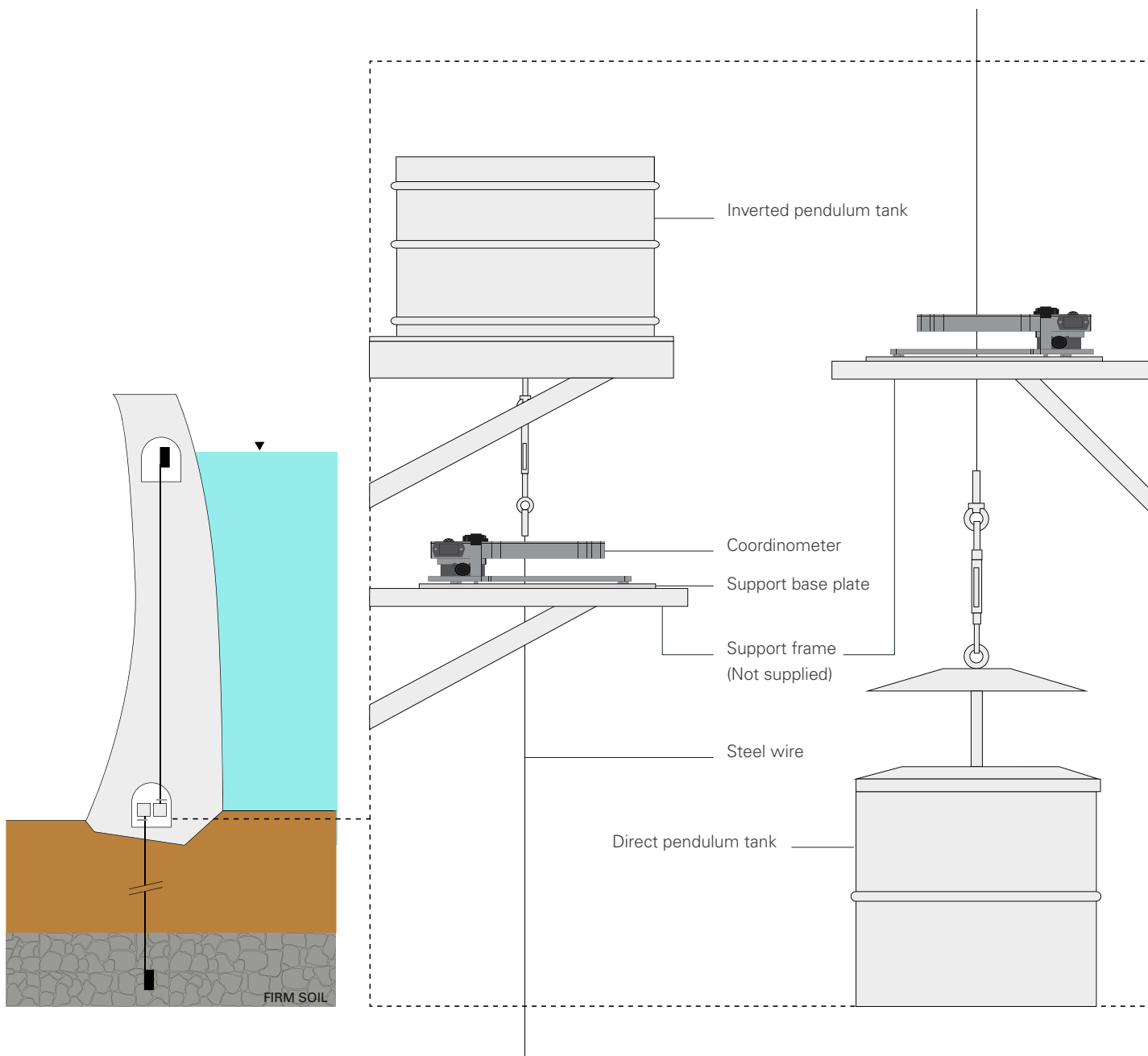


### OS9RTFR1000 CALIBRATION FRAME

Utilized to verify the calibration of the optical pendulum readout.  
Material: stainless steel / aluminium  
Dimension: 204x120x83 mm (LxWxH)



## TYPICAL DAM INSTALLATION



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