

BOADELLA DAM

GERONA – SPAIN

Enlargement and Improvement of the existing monitoring system, real time monitoring, manual measurement monitoring.

The Boadella dam has been designed to regulate the water supply and irrigation for the city of Figueras (Gerona) and surrounding area.

Sol Data undertook the task of enlarging the Monitoring System, the supply and installation of the sensors, the datalogger and the software required for the control and monitoring of the System.

• The Problem

After inspecting the dam, serious deficiencies were found in the dam monitoring system.

The enlargement and replacement of the existing monitoring system of the dam were required to accurately analyze the dam behavior.

• Control System

To control the installed equipment and its corresponding measurements, a tool that allowed a quick and accurate analysis of the data was required.

SolData integrated a fully automated system including software that specifically controls the dam, and, an integrated alarm system.

The installation works lasted 3 months and a 2 year guarantee was issued after finishing the works.

Boadella dam (63 m high):



CLIENT :	AGENCIA CATALANA DEL AGUA
DATE OF WORKS :	FEBRUARY 2007 – MAY 2007
SCOPE OF WORKS :	
• Supply and installation of:	
- 2 Inverted pendulums with an automatic acquisition system.	
- 18 Filtration Gauges (Thomson type).	
- 18 ultrasonic sensors for automatic recording of the flow rate	
- 34 3D crack meters.	
- 14 Inclinator Bases.	
- 55 Hydraulic Piezometers.	
• Installation of a leveling and topographic collimation system.	
• Supply and installation of a seismic monitoring system, made of two triaxial accelerometers and a datalogger in order to synchronize and send the data.	
• 2000 m of cable.	
• Configuration of a complete automatic data acquisition system made of an automatic datalogger, a radio transmission system, a server and a computer. The GEOSCOPE software enables a real time acquisition, to manage the alarms, to stock data, to issue reports and to connect remotely.	