

System and method of measuring horizontal displacements of roof rocks

Description of the solution:

A system for measuring the displacement of rock layers in mine workings, in particular for measuring the horizontal displacement of roof rock, comprising: at least one sensor; a data logger having means for wireless communication and configured for two-way communication with one or more sensors; a mine information system connected by cable to one or more loggers.

Benefits of the solution:

- Possibility of measuring roof rock displacements (especially horizontal displacements, as well as detecting even very slow movements of rock layers).
- Increasing the safety of the mining crew working underground (by enabling better detection of changes occurring around underground mine workings).

Area of application:

Mining (roof monitoring).

Technology readiness level:

9

Intellectual property:

Invention: PAT.244442

Owner:

KGHM Polska Miedź S.A.

Contact:

wlasnosc.intelektualna@kghm.com

