

Abstract:

SMART MANHOLE MONITORING SYSTEM WITH SIMPLIFIED INSTALLATION

5 The present invention provides a manhole monitoring system including: a smart monitoring device
installable on to a manhole cover; and a shape adapter installable on to a base frame mated with the
manhole cover. The smart monitoring device includes a pressure sensor configurable to cooperate with
the shape adapter to detect existence of the manhole cover at the base frame. The manhole monitoring
system can be installed on site or off site by workers without entering into the confined space in the
10 manhole. The present invention not only prevents working accidents caused by hazards in the confined
space, but also significantly reduces the time and manpower for installation.

[FIG. 1]