

# TX5021 RockMonitor XM Telltale Installation Reference

The following information has been provided as a quick installation guide only. Ensure you refer to the user manual for detailed installation instructions, conditions of safe use and certification information. Refer to all relevant certificates for detailed parameters and special conditions of safe use before device installation.

The installation of the RockMonitor XM Telltale must only be carried out by competent personnel. Each device installation needs to be considered with reference to local safety regulations, authorities and site working practices.

Refer to the following standards for additional guidance:

- IEC/EN 60079-14
- IEC/EN 60079-25

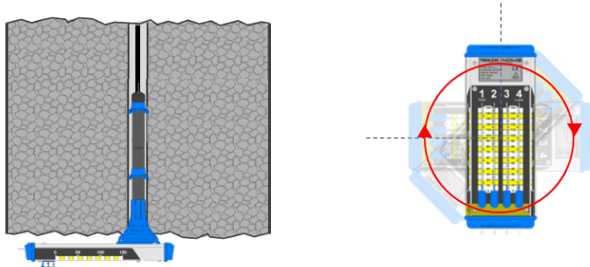
Prior to commissioning and first use, the product must be inspected for any visible damages that may compromise the integrity of the enclosure.

**Never install a product that has a damaged housing in a hazardous location.**

## Device location and orientation

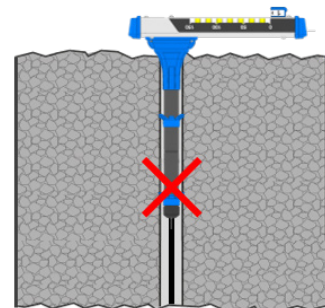
Follow the installation recommendations below to ensure devices are installed and orientated correctly to ensure the Ingress Protection (IP) rating is maintained.

Devices can be mounted directly into the mine roof with the telltale body being positioned in any degree of angle about the bore hole centre. Orientate as required for best scale visibility.



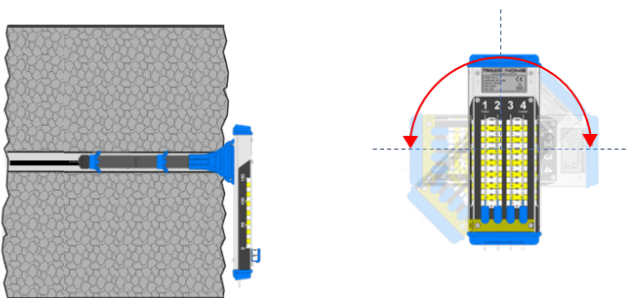
**Roof Mounting Orientation**

Telltale devices are not suitable for floor mounting applications and must never be installed with the bore tube pointing down.



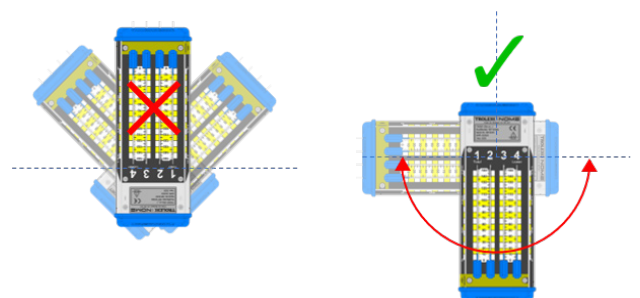
**Floor Mounting Orientation**

A device can be mounted directly into a mine sidewall with the Telltale body being positioned in a fixed orientation about a 180-degree angle around the bore hole centre.



**Sidewall Mounting Orientation**

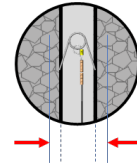
During sidewall mounting, the device should never be installed with the scale label positioned above the horizontal installation level to ensure Ingress Protection rating is maintained



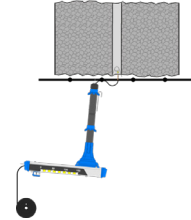
**Sidewall Orientation**

# Device Installation

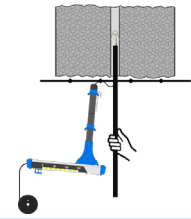
**1.** Drill a 35-45mm bore hole to the height required for the top most anchor. Where required, cut a hole in any roof mesh that may interfere with the installation.



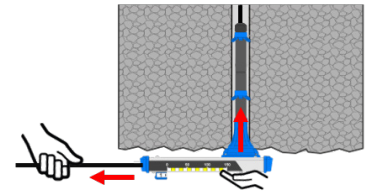
**2.** Using the integrated installation hook, hang the device as close to the bore hole as possible. Ensure the yellow plastic installation strip is left in place. Remove the wire reel for anchor 1 and allow to unspool.



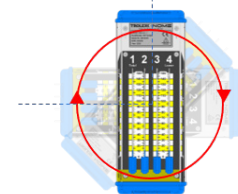
**3.** Using installation rods, push anchor 1 into the bore hole to the required height. Repeat steps for anchor heights 2, 3 and 4 (where applicable). Seat spring anchors by pulling down on each wire placed into the bore hole.



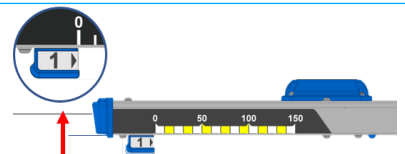
**4.** Unhook the device and insert into the bore hole. Take care to push the unit from the centre into the bore as far as it will go. Pull the slack cable through the device from the back end as you do this.



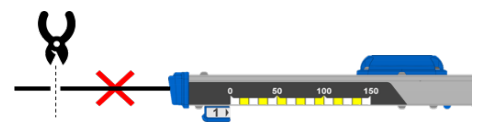
**Note:** Device orientation will be dependent on local strata conditions and should be determined on a case by case basis. Use of the side scale for viewing at distance requires telltales to be mounted perpendicular to the roadway.



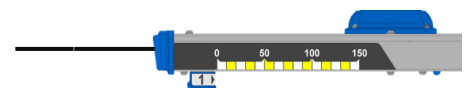
**5.** Remove the handle installation hold off tab (Yellow plastic strip). Ensure the marker handles sit flush against the device and are not stuck in the down position.



**6.** Pull on each cable to remove any remaining slack in the device. Excess cable can be removed with cutters. Take care to ensure enough cable is left to allow resetting of anchor measurements.



**Note:** The telltale can measure up to 150mm of displacement before needing to be reset. Each full reset requires 150mm of anchor cable, plus 100mm of remaining cable to allow for tensioning and to prevent the loss of cable inside the device.



**7.** Connect the power/data cable from the telltale to the rest of the network based upon required topology (daisy-chain or spur connection).