

AXON gateway



Improving the
monitoring of your
underground
environment

- > Built to support wireless monitoring solutions
- > Ruggedised for harsh underground environments
- > Edge computing with a variety of wireless protocol options
- > Seamless integration with AXON digital infrastructure

AXONⁱ gateway

MST's AXON gateway module offers the most simple and cost-effective way to connect to wireless sensors that use LoRa or BLE communication protocols. As a plug-and-play edge computing gateway with advanced connections, AXON gateway is designed to enable a range of environmental and process monitoring scenarios when connected to the AXON core digital platform.

AXON gateway can be quickly deployed anywhere in the mine by simply plugging in to an existing AXON core, either directly, or via a PoE+ port using the AXON dock. The gateway module utilises the AXON core's high bandwidth fibre and PoE+, making it capable of processing large amounts of data simultaneously.

Some examples of AXON gateway applications include:

- > remote system monitoring
- > environmental conditions
- > predictive maintenance
- > event reporting
- > machine monitoring
- > tailing dam conditions
- > power monitoring and more

SPECIFICATIONS

System Connectivity

- > Can be mounted directly on the AXON core
- > 1 unit can be connected via PoE+ using the AXON dock
- > Support for a number of connected devices – dependent on polling frequency
- > 2 antenna support for LoRa or BLE

Power Requirements

- > 20 to 60VDC, 56VDC nominal
- > Draws 4W nominally

Environmental Parameters

- > IP65 rated
- > Operating temperature: 0°C to 50°C
- > Storage temperature: -20°C to 70°C
- > Operating humidity: 5 to 95%

AXON dock

- > PoE+ connection to AXON core, Class 4
- > Connects 1 AXON gateway
- > Up to 7 AXON gateways per AXON core when used with AXON power

Protocols

- > Bluetooth 5
- > LoRa: 433, 868, 915 MHz bands
Class A, B, C

LED Indicators

- > Power status LEDs
- > BLE LED
- > LoRa LED

Dimensions (mm) and Weight

- > 208(h) x 119(w) x 96(d)
- > 1kg