# **AXON**control



Improving the safety of your underground environment

- > Built for control and automation solutions
- Ruggedised for harsh underground environments
- Edge computing with a variety of sensor input options
- > Two relay outputs
- > Seamless integration with the AXON core





MST's AXON control module offers the most simple and cost-effective way to activate control and automation processes in harsh underground environments. As a plug-and-play edge computing gateway with advanced I/O capabilities, AXON control is designed to enable a range of process optimisation scenarios when connected to the AXON core digital platform.

Unlike full-scale SCADA implementations, **AXON control** can be quickly deployed anywhere in the mine by simply plugging in to an existing AXON core. The control 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 control** applications include:

- > remote water pump control and monitoring
- > ventilation fan control
- > predictive maintenance
- > event reporting

- > traffic and access control
- > emergency stench gas release
- > power monitoring, and more.

**AXON control** also features inbuilt software with geolocation capabilities meaning scenarios requiring operational logic based on movements and locations of people and vehicles can also be activated.

## **SPECIFICATIONS**

## **System Connectivity**

- > 1 x 1Gbps system interface (IP addressable)
- > General purpose industrial computer

# **Software Capabilities**

- > OS: Linux Yocto
- Server-side platforms and services: MS Azure, MST HELIX Control & Automation
- > Protocol: MQTT

### **Environmental Parameters**

- > IP65 rated
- > Operating temperature: 0-50°C

#### **Sensor Inputs**

- > 2 x 4..20mA analogue inputs
- > 2 x 0..10V analogue inputs (can be configured as digital inputs 12/24 VDC)

#### **Regulated Power Outputs**

> 12 and 24 Volt DC, used to power external sensors

## **Relay Outputs**

> 2 x DPDT relay outputs (rated 2A at 30VDC)

#### **LED Indicators**

- > Power and system status LED
- > Sensor power LEDs
- > Relay closed LEDs

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