



AMS HADEN

INSTRUMENT AND MINING SERVICES PTY LTD

PROP R HADEN INSTRUMENT SERVICES PTY LTD



OCCUPATIONAL HYGIENE



SAFETY



**ENVIRONMENTAL
MONITORING**



**SMART RISK
MANAGEMENT**



HVAC

**MINE
VENTILATION**



CONSULTING



MONITORING & PROTECTING YOU AT WORK



www.amshaden.co.za

ABOUT US:

AMS Haden is the product of a merger between R. Haden Instrument services T/A AMS Haden Instrument & Mining Services (Pty) Ltd & Barnel Design & Manufacturing.

The Company R. Haden Instrument Services has been in existence since 1973. The core business of the company is the Importation and Distribution of Instrumentation for Environmental Monitoring and Control, Mine Ventilation, Occupational Hygiene and Process Control. These include Instrumentation to monitor Airflow, Temperature, Humidity, Pressure, Noise levels, Gas, Illumination, Dust, Water Quality, Vibration and Climate. The Company also manufactures its own range of instruments. In-house calibration services for Airflow, Temperature and Dust Measuring Instrumentation is also done on site. Maintenance and Repairs on a wide range of Instrumentation.

Barnel Design & Manufacturing provides technical consulting and project management services, saving our customers time and providing them with competitive rates and quality products. As an OEM company, products & systems are locally designed & manufactured to customer's needs & requirements.

AMS Haden are Distributors for several leading brands which include:

Casella Cel, U.K | Thermo Fisher Scientific, U.S.A | Greisinger, Delta OHM, Germany | Pinssar, Australia | TSI Alnor, U.S.A | G.H Zeal, U.K | Pacific Data Systems, Australia | Gill | Gastec | Clean Space, Australia | Exsens, S.A | LSI Lastem, Italy | HikVision | Golden Win3, China | Denwa group of companies.

With more than 40 years' experience in the mining, industrial and plant sectors AMS Haden aim to provide customers with turnkey solutions in the electronic & instrumentation fields.

The Future objectives of the company is to continue supplying quality Instrumentation for the monitoring of environmental conditions affecting the health and safety of workers and conservation of the environment. To develop custom instrumentation to meet the specific needs of our customers. To provide full technical back-up, after sales service and maintenance for our customers.

OUR CLIENTS:



DE BEERS





AMS HADEN

INSTRUMENT AND MINING SERVICES PTY LTD

PROPR HADEN INSTRUMENT SERVICES PTY LTD

VISION:

We provide innovative turnkey solutions, to comply with health and safety regulations, meet milestones and aim for zero harm. We strive for sustainability and for the upliftment of our employees

MISSION:

To support our clients in the mining, industrial and medical space to achieve zero harm in the working environment through the use of technology

VALUES:

To develop & sustain our people, environment and communities through responsible leadership & business ethics



DISTRIBUTORS FOR:

CASELLA

ThermoFisher
SCIENTIFIC

pacific data systems
Solutions. Technology. Simple.



blacklinesafety

DeltaOHM
Member of GHM GROUP



CleanSpace
RESPIRATORS

ZEAL
Established 1888

GREISINGER
— electronic —



GILL

ALNOR



SUB'ROCA
Underground Safety Life



CASIO

airthinx

OIZOM
REDEFINING RESOURCES

GASTEC
GAS DETECTOR TUBE SYSTEM

HIKVISION

alhua
TECHNOLOGY



BOSCH

FLIR

dafo
vehicle fire protection



RioTinto



GOLD FIELDS

PetraDiamonds

samancor

SERITI
RESOURCES

GLENCORE

exxaro
POWERING POSSIBILITY

Sibanye
we are one
Stillwater

INDEX



1. OCCUPATIONAL HYGIENE

- Noise & Sound
- Dust & Airborne particulates
- Ergonomics & Vibration
- Heat Stress
- DPM (Diesel Particulate Matter)
- Illumination & Light Source



2. SAFETY

- Cap lamps & Mine Lighting (Intrinsically safe)
- Gas and Smoke Detection (Portable & Fixed systems)
- PPE
- Proto Kit
- Refuge Bay Equipment, Emergency Systems, Complete Refuge Bay Kits and Compressed Air Silencers.



3. ENVIRONMENTAL MONITORING

- Weather Stations
- Boundary Monitoring for Dust, Noise & Gases
- Air Quality
- Water Quality
- Underground Condition Monitoring (REMS)



4. HVAC

- Airflow
- Pressure (Air)
- Temperature
- Automation & Control
- Compliance



5. MINE VENTILATION

- Observer Kit (All hand-held and portable instrumentation)
- Stationary Sensors and Transmitters



6. SMART RISK MANAGEMENT SOLUTION

- Smart Environmental Monitoring
- Smart Fire Prevention Solutions
- Smart Camera Solutions
- Smart Management Software
- Active and Passive Personnel Asset Tracking and Tagging Systems
- GSM Monitoring and Control Systems
- Solar, Battery Backup and Power Solution Systems
- Application Engineering (Custom Systems)
- Design and Manufacturing of Health and Safety Products, Devices and Systems (OEM Company)
- Laboratory Telemetry, Monitoring and Control Systems
- General Custom Designs - Electronic Signs, Production, Safety Screens and SCADA Systems
- Distributed Temperature Sensing and Distributed Acoustic Sensing systems
- Fire Detection
- Fire Suppression Systems
- Dust Suppression
- Universal Controllers
- Switchgear
- Complete Monitoring and Control Systems for the Mine, Health and Safety Industry



7. CONSULTING

- Auditing
- Drafting
- Dust Suppression / Extraction
- Ventilation & Refrigeration Engineering
- Occupational Hygiene
- Specialised Surveys
- Risk Assessments (Occ Hygiene, Ventilation & Fires)
- Mine Planning
- Ventilation Simulations
- Mine Refrigeration Plant Design & Construction
- Personal Monitoring
- Swab Sampling
- Ventilation Construction Work
- Labour Hire



1. OCCUPATIONAL HYGIENE

NOISE AND SOUND



Noise Dosimeters

CASELLA

Casella DBadge2

- Bluetooth® 4.0 wireless connectivity
- Airwave App for Mobile devices such as phones and tablets
- Multiple 'simulated' dosimeters
- Full color display



Noise Signs

AMS HADEN
INSTRUMENT AND MINING SERVICES PTY LTD

Customizable Digital Signs & Products

- 110 - 230 Volt AC Power with Battery backup options
- Continuous 4-20mA Output for SCADA Monitoring
- Red / Green Visual Warning Indication
- Digital Display with 50m viewing distance



Acoustic Calibrators

CASELLA

Casella Acoustic Calibrators

- The field calibration of Sound Level Meters is an essential procedure when carrying out any type of noise survey both before and after each measurement sequence
- Class 1 & 2 accuracy versions
- Digital technology ensures highly stable acoustic performance



Sound Level Meters

CASELLA 

Casella Sound Level Meters

- Simple operation
- Rugged design
- High resolution display
- Latest digital technology

DUST & AIRBORNE PARTICULATES



Dust Monitor

ThermoFisher
SCIENTIFIC

ThermoFisher Scientific PDM 3700

- Real-time, respirable dust monitor
- Waterproof battery protection
- PC-based software for data downloading
- Integral charger with download station for PC interface
- Ergonomic



Particulate monitor

ExSENS
TECHNOLOGY

Exsens Portable Real-Time Particulate Monitor

- This instrument measures personal exposure of respirable dust particulates, PM1, PM2.5, PM4 and PM10 with a concentration range up to 1000ug/m³
- Data logging and download capabilities
- Wifi enabled: real time personal monitoring



Dust Mate

AMS HADEN
INSTRUMENT AND MINING SERVICES PTY LTD

Continuous Laser Dust Monitor

- Online Continuous Laser Dust monitor
- Detection and monitoring of dust particle concentration in industrial and mining application
- Displays real-time dust concentration



Aerosol Monitor

ThermoFisher
SCIENTIFIC

ThermoFisher Scientific PDR1500

- Active, real-time, personal aerosol monitor/datalogger, with aerodynamic sizing
- Workplace & plant monitoring
- Remediation personal surveillance
- Mobile monitoring in vehicles & aircraft
- Toxicology & epidemiology studies



Dust Monitor

CASELLA

Real Time Dust Monitor

- Real-time graphical display of dust levels
- Simple icon driven user interface
- Extensive range: 0.001mg/m³ to 250g/m³ (Auto-ranging)
- Unique removable sampling probe



Sampling Pump

CASELLA

Casella Apex 2

- Personal Sampling Pump
- Class beating performance
- Bluetooth® and Airwave app
- Lightweight and Ergonomic
- Motion Sensing



Air Sampling

CASELLA

Flow Detective

- Calibrator for air sampling pumps
- High accuracy calibration
- Pulsation detection
- Simple operation
- Rugged design



Air Sampling Pump

CASELLA

Vortex3 High-Flow Air Sampling Pump

- Ideal for area sampling for airborne contaminants including Asbestos and other hazardous materials.
- The Vortex3 is the latest generation of static, high flow rate sampling pumps
- Can now be controlled and monitored from your mobile phone or tablet

ERGONOMICS & VIBRATIONS



Vibration Meter

CASELLA 

Casella HAVex

- Simple operation
- Robust accelerometer & cable
- Color display
- Stores over 900 measurements



Vibration Meter

LARSON DAVIS
A PCB PIEZOTRONICS DIV.

Larson Davis Human Vibration Meter

- Control and view data from a mobile app
- Removable micro SD memory card
- USB 2.0 and Wi-Fi
- ISO 8041:2005 compliant



HEAT STRESS



Heat Monitoring



LSI Heat Shield

- Quick, real-time, reliable, and accurate assessment of indoor and outdoor WBGT index
- Real-time assessment of the PMV-PPD index (ISO7730)
- Verification probe for assessment of the system calibration



Heat Monitoring



Kestrel 5400

- Measures Wet Bulb Globe Temperature (WBGT), Thermal Work Limit (TWL), heat index, temperature, humidity and much more. 15 measurements in all
- Waterless! Natural Wet Bulb Temperature accurately calculated from on-board digital sensors with no tedious setup or maintenance



Heat Monitoring



ExSens Personal Heat Stress Monitor

- Continuous Temperature & Relative Humidity Measurement
- Instrument calculates Dew Point and Wet Bulb Temperatures
- Data Logging with USB Downloading (25,000 Records)
- Color Coded Alarm Indication
- Intrinsically safe



Ventilation



Whirling Hygrometer

- The whirling hygrometer also known as a sling psychrometer is made from two thermometers mounted on a frame which rotates around a handle, so it can be whirled in the air by hand

DPM



DPM Reader



PDS (RT DPM) Tailpipe

- Instant measurement of fine particulate levels in diesel exhaust
- Easy to use, on-screen prompts, minimal (<10min) training required
- Designed to handle the rugged demands of mining sites
- Auto-generates & displays Stall or Free Acceleration test results



DPM Reader



Pinssar Stationary DPM Reader

- Saves lives by reducing exposure to DPM
- Gives people greater confidence when working in confined spaces
- Demonstrate the importance the company places on employee health and safety
- Verify the effectiveness of existing controls, such as ventilation

ILLUMINATION



Light Meter



Lutron Lux Meter, LX -101

- Sensor used the exclusive photo diode & multi-color
- Built-in low battery indicator, correction filters, spectrum meet C. I. E. standard
- LSI-circuit use provides high reliability and
- Sensor COS correction factor meet standard durability



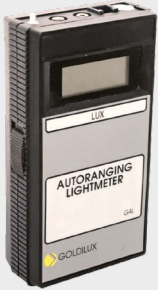
Lux Meter



Goldilux LED Lux Meter

- Large LCD Display
- Measurement of Illuminance (lux or foot-candles) over a wide range
- Light weight

ILLUMINATION



Lux Meter



Goldilux

- Auto ranging
- Large LCD Display
- Measurement of Illuminance (lux or foot-candles) over a wide range
- Light weight



Illumination Verification



Fixed Vehicle illumination system

- (9 x Lux Sensor Software Application linked to vehicle numbers / Downloads via USB or Ethernet)
- Custom Panels with Lux Sensors (IP65) SABS Approval certificate number:2330HE011
- * Data Acquisition Unit – Touch Screen User interface complete with data logging ability / historical data storage

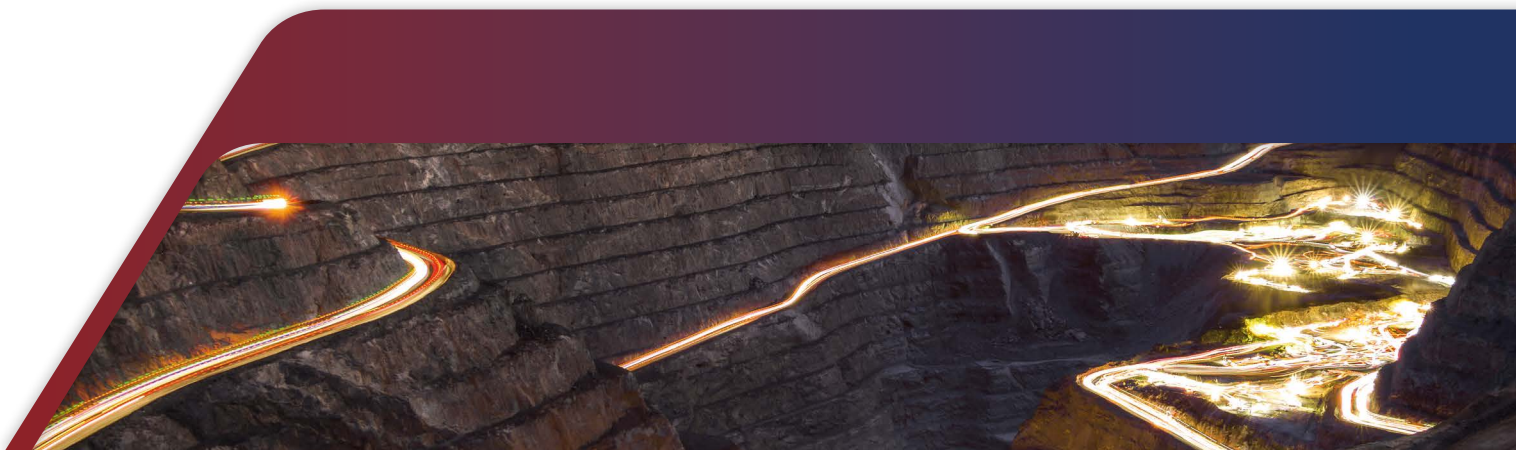


Illumination Verification



Standalone Vehicle illumination system

- 9 x SABS Approved Lux Sensors with PASS/FAIL indication
- User friendly Software Application complete with DAU/User interface
- Rugged / Mobile Military Spec Travelling Case





2. SAFETY

CAP LAMPS & MINE LIGHTING (Intrinsically Safe)



Miners Lamps



K5D100 Cap Lamp (X-lite)

- Up to 30 hours on main LED
- Additional 10 hours on auxiliary
- Minimum 6500 LUX on main LED
- IP68 protection rating
- Wifi enabled
- Shaft clearance, location monitoring
- Cap lamp battery and network status
- Emergency evacuation functionality
- Environmental monitoring capabilities



Miners Lamps Cordless Cap Lamp



- Water Resistant
- Shock resistant (9 joules)
- ATEX (ia) and IEXEx (ai) approved for use in hazardous environments



Custom Solutions



Proto Kit

- Charge on the go. 12VDC car charging socket
- 2 instruments per kit as backup instruments
- Instruments can be paired to be utilised in a confined space environment

CAP LAMPS & MINE LIGHTING (Intrinsically Safe)



Safety Signs



Safety Signs

- 110 - 230 Volt AC Power with Battery backup options
- Continuous 4-20mA Output for SCADA Monitoring
- Digital Display with 50m viewing distance
- Measuring parameters: Noise, Temperature, Blasting Panels, Time



Cap Lamp Verification



Digi-Illumination Tunnel

- Cap Lamp Verification
- Factory calibrated and preset to 2000 lux to provide the user with a visible RED/FAIL and GREEN/PASS indication



Racks



Charging Racks

- Custom built according to needs
- Available in 5, 10, 30, 120, 160 & 200 Point





GAS AND SMOKE DETECTION

(Portable & Fixed Systems)



AMS 501 Smoke Detector



AMS Smoke Detector

- High sensitivity and adjustable sensitivity
- Two independent relay outputs (first & second alarm)
- Optional audio & visual alarm signal
- Operating Temperature: -40 ~70
- Relative Humidity: 95%



Portable Gas Detection



ExSens X4 & X4-2 WiFi Gas Instrument

- Wifi enabled: real time gas and location monitoring
- 5x Simultaneous gas measurements
- Battery life: up to 24HRS
- SD Memory storage: up to 4GB
- Graphic color display: Mimics/Video
- Remote outstation logging
- X4-2 (WiFi enabled) real time tracking

GAS AND SMOKE DETECTION (Portable & Fixed Systems)



Fixed Gas Detection



Exsens Fixed Gas Detection monitor

- Supports all flammable and toxic gases (4-series sensor technology)
- Local display and A/V alarm
- 4-20mA output
- RS 485 output
- Relay output



CO Warning Device



Low Cost CO Exposure Management with Downloadable Warning Device

- Continuous CO Measurement
- Instrument calculates TWA continuously
- Data Logging with USB Downloading
- Color Coded Alarm Indication



SCADA Controller



Programmable Fixed Gas Detection Controller:

- Large local display and keypad interface
- 8 x analogue input
- RS485 input and output (MODBUS)
- 6 x Configurable relay output



Flue gas analyzer

Be sure. **testo**

Testo 350

- Large color graphical display
- Robust plug-in connections
- Closed chambers protect the interior of the instrument from dirt



blacklinesafety

Blackline Safety

REAL-TIME VISIBILITY, REAL-TIME SAFETY

Real-time awareness of your people and places empowers a more informed response should the worst occur. G6 and G7 wearables and G7 EXO portable area monitors, with unmatched connectivity and accurate location technology, deliver ultimate visibility across your worksites



Refuge Bay Solutions

AMS HADEN
INSTRUMENT AND MINING SERVICES PTY LTD
PROF & HAZARD INSTRUMENT SERVICES PTY LTD

- Complete refuge bay emergency medical kit with spine board, spider harness, first aid kit and blanket
- Electronic LED sign - Standard or with battery back-up
- Complete 24m kit for refuge bay includes 25mm and 50mm galvanised piping; ball valves; air whistle, CAS001FB Silencer; flanges and couplers
- Air whistle kit, Drinking water kit, 70 and 125lt waste bins Mediloo (First Aid Capsule transforming into Toilet)

INNOVATING TOWARDS ZERO HARM

INNOVATING TOWARDS ZERO HARM

PPE



CleanSpace Respirators (Full face mask & Half masks available)

CleanSpace®
RESPIRATORS

CLEANSPACE2™

- Powered P3 Respirator Light, with no hoses, belts or cables and no maintenance. Particulate and Gas Filters High dust sites – quarries, mining Welding, grinding Maintenance and cleaning Timber and agriculture



CLEANSPACE™ ULTRA

- Powered P3 respirator With Rating IP 66 designed for use in decontamination showers Chemical handling Lead abatement Infectious agents First responder



CLEANSPACE™ EX

- Powered P3 respirator Intrinsically safe certified for use in potentially explosive atmospheres Underground coal Oil and gas Petrochemical Chemical handling





3. ENVIRONMENTAL MONITORING



Air Quality Control

airthinx

Airthinx IAQ

- Airthinx, is the 1st data-driven internet-of-things (IoT) solution for continuous air quality monitoring
- Continuous and ongoing monitoring of air pollutants in real-time
- Critical event detection for smoke, wildfires, mold, and gas leaks
- Reduces exposure to environmental triggers



Velocity Monitoring

Ultrasonic Velocity sensors

- Velocity meter
- Quality Measurements
- Lightweight and Robust
- Low Power Mode
- Free of Charge Software



Weather Monitoring

DAVIS

Davis Weather Station

Wireless Weather Stations include two components: The Integrated Sensor Suite (ISS) which houses and manages the external sensor array; and the console which provides the user interface, data display, A/D conversion, and calculations



Weather Meter



Kestrel 5500

- Large, hi-res, hi-contrast, graphic display is perfectly readable in the brightest sunlight and is backlit for nighttime use.
- Optional Link connectivity powered by Bluetooth Smart® provides wireless communication to mobile devices and computers



Temperature Meter



Greisinger PH & Temperature

- For comfortable measurements of pH value and temperature
- Double display for pH or redox and temperature
- Redox mode allows for automatic conversion to a hydrogen system
- Automatic or manual temperature compensation
- Automatic buffer detection

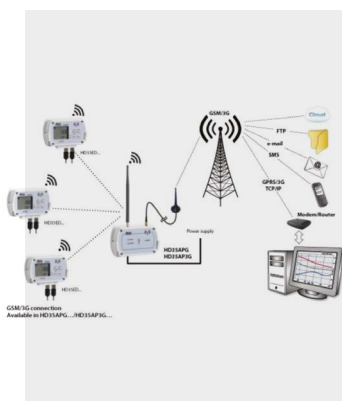


Thunderstorm Meter



Lightning detectors

- Detection during all phases of a thunderstorm
- Prevention of occupational hazards
- Suspend work or outdoor activities



Weather Monitoring



Member of GHM GROUP

DELTA OHM Network

- Quick and easy installation
- Reduction of installation costs
- Flexibility of the system
- Low maintenance



Multi-Agent Monitoring **CASELLA** Station

Casella Guardian Boundary Monitoring

- Real-time particulate, noise, and ground vibration (PPV)
- Simultaneous PM10, PM2.5 and PM1.0 monitoring
- Web-hosted data with secure, password protected login
- Optional, maintenance free windspeed & direction sensor



Dust Monitor

ThermoFisher
SCIENTIFIC

ThermoFisher Scientific ADR 1500

- Real-time ambient dust monitor designed for continuous monitoring
- Volumetric flow control
- Multiple power and communications capabilities
- Durable weather-proof IP65 enclosure



Weather Monitoring

AMS HADEN
INSTRUMENT AND MINING SERVICES PTY LTD
PROUDLY SUPPORTING AUSTRALIAN MINING

iWEATHER®

- Easy to install
- Wind, temperature, humidity, rainfall and barometric sensors come standard
- Revolutionary Solid State Wind Sensor with no moving parts
- Flood alert, the more it rains the faster it updates





Dust Monitoring



DUSTROID®

- Heated Inlet: Dehumidifies the sample to nullify the effect of humidity for better accuracy. (only available in Pro variant)
- Retrofit Design: Plug and play design for ease of implementation
- Compact: Light-weight and compact system that can be installed at 12-15 feet (4-5 m) height



Odour Monitoring



ODOSENSE®

Odosense is the real-time odour emission tracking solution. Odosense continuously detects, measures and monitors the odourful gaseous contaminants



Pollution Monitoring



POLLUDRONE®

Polludrone is a Continuous Ambient Air Quality Monitoring System (CAAQMS). It is capable of monitoring various environmental parameters related to air quality, noise, odour, weather, radiation etc



Weather Monitoring



WEATHERCOM®

Weathercom measures meteorological parameters such as wind speed & direction, rainfall, visibility, UV-radiation, light intensity, temperature, humidity, pressure, etc



INNOVATING TOWARDS ZERO HARM



Weather Monitoring

AMSH CW8s®

CWS 8s is an eight-sensor micro meteorological instrument, the product has the following sensors atmospheric temperature, humidity, wind speed, wind direction, air pressure, PM2.5, PM10 and noise through a highly integrated structure



REMS



REAL-TIME ENVIRONMENTAL MONITORING SYSTEM

- Mobile or fixed applications
- Onboard data logging
- Real-time monitoring with display
- Audio and multicolor visual alarm indication
- Measuring up to 9 different parameters including gasses
- Environmental monitoring (WB/DB/Humidity/BP/velocity)
- Communication/network status indicating
- Realtime date and time indication



Refuge Bay Monitor



- CO sensor / CO2 sensor / O2 sensor
- Water Pressure Monitor
- Compressed air pressure Monitor
- Differential pressure inside and outside
- Illumination Levels
- Telephone Communications Monitor
- Refuge bay light & siren monitoring and operation
- Noise Level Monitoring
- Wi-Fi enabled
- Environmental monitoring inside chamber (DB/WB/Hum/BP)
- Door Status
- Electronic Checklist



4. HVAC



Air Flow



Airflow Micromanometers

- Measure differential and static pressure from -3735 to +3735 Pa (-15 to +15 in. H₂O)
- Calculate and display velocity when using a Pitot tube
- Calculates volumetric flow rate in duct from velocity and user-input duct size and shape



Air Flow



TSI 7545

- Temperature and relative humidity measurements help determine thermal comfort
- Directly calculates dew point and wet bulb temperatures
- Electrochemical sensor measures CO
- Calculates % outside air from either CO₂ or temperature



Air Flow



Airflow LCA501 Anemometers

- Model LCA501 is a light weight, robust, and simple to use Rotating Vane Anemometer that provides accurate and reliable readings every time. Reversible 100 mm head allows readings at supply and extract grilles
- Calculates volumetric flow rate



Air Flow



Airflow Panda

- Positive and negative duct accreditation (panda) system
- Positive and negative duct leakage testing in one rig
- Energy savings by testing and minimizing duct leaks



Air Flow



Airflow Balometer

- Ergonomic design and ultra-light weight for easy, one-person operation
- Automatically senses and displays supply or return flows, saving time on the job
- Back pressure compensation ensures accurate readings



Air Flow



Pressura - For Critical Environments

- Continuously measures room pressure
- Audible, visual alarms warn of loss of containment
- Accepts optional key switch for use when room is not occupied
- Communicates with building management system using analogue output



Air Flow



Airflow Hot Wire

- Accurate air velocity measurement
- Large, easy to read display
- Calibration certificate included





5. MINE VENTILATION



Ventilation



VENT Pro 2

- Vane Anemometer
- Wireless communication
- Build-in calculations, stopwatch & airflow selections
- User friendly display unit - less human factor
- Electronic data handling & PC downloading reports
- Micromanometer



Ventilation



Pitot tube

Flow measurement device used to measure fluid flow velocity



Ventilation



Gastec

GASTEC Detector Tubes indicate concentrations directly by way of a calibrated scale printed on the tubes. GASTEC tubes are highest quality detector tubes for analyzing airborne gases/vapors, as well as pollutants in soil and water

INNOVATING TOWARDS ZERO HARM



Ventilation

Laser Distance Meter

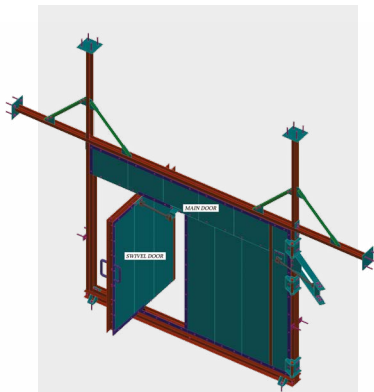
- Distance measurement
- Addition
- Subtraction
- Area measurement



Air Flow

Digi Velocity Tunnel

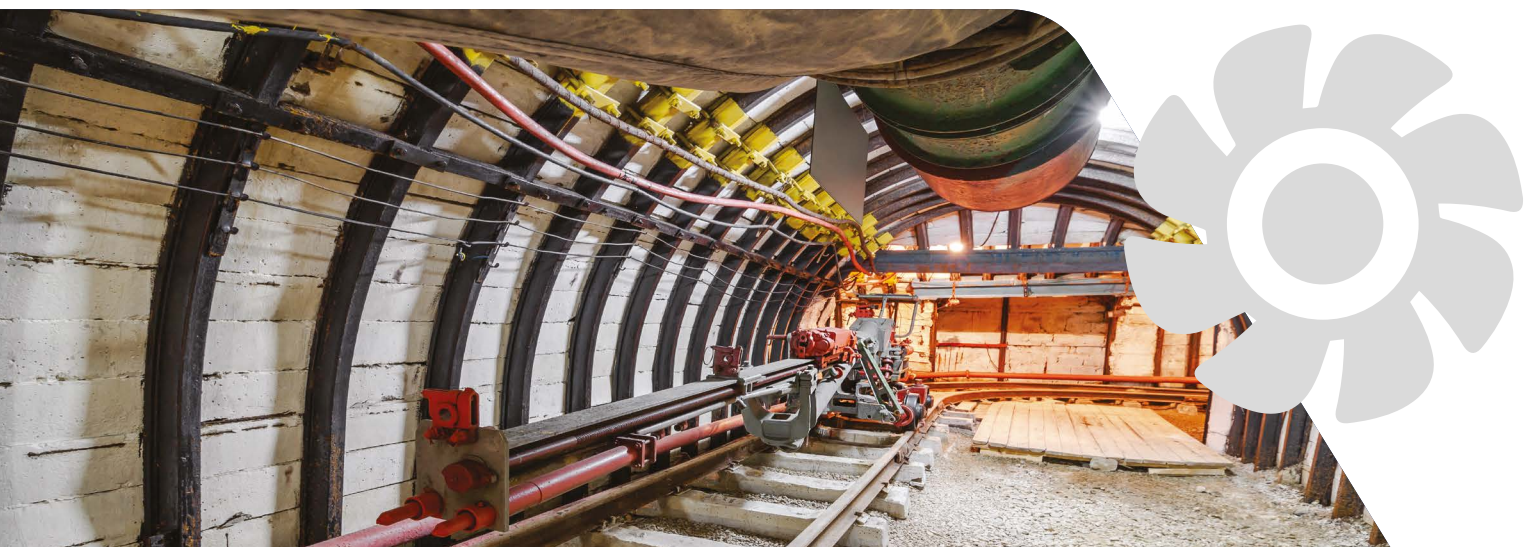
- The latest innovation to accurately test the air-flow measurements of Pocket/Hand-held anemometers, prior to use
- A sensor is connected to a digital display to confirm the reading of the anemometer
- The unit is supplied with a calibration certificate and a user manual



Ventilation

Mine Ventilation Door

- High & low Pressure Fire Doors
- Louvre Air Control Regulator





6. SMART RISK MANAGEMENT SOLUTION



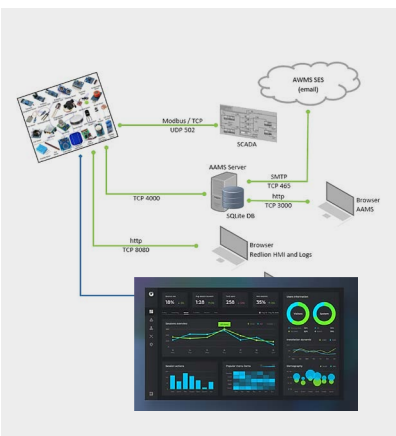
Fire Protection Solutions

At AMS Haden we provide a wide range of risk-management solutions. Driven by our industry insights and appetite for innovation, we have a stable of products that include the most advanced condition monitoring and fire prevention systems in the world, as well as best-in-class fibre optic sensor tech and security systems



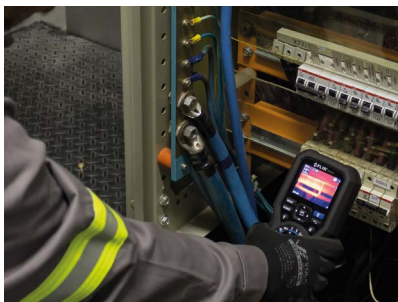
Fire Prevention and Real Time Condition monitoring

- Distributed Temperature Monitoring
- Distributed Acoustic Monitoring
- Fire Suppression Solutions
- Combined Fire Prevention Technologies



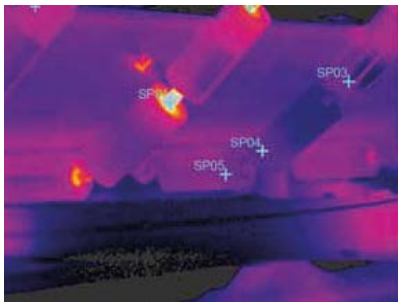
Advance Management Software

Basic Protection Logic, Basket of Sensors, Basic Communication, Fibre, Dashboards, Architecture (Adroit Smart Scada Platform) - Reporting Service, Intelligence, Alarm Management, Data Server



Smart Substation Solutions

- Switchgear Monitoring, Panel Enclosure Monitoring & Fire Detection Solutions
- Access Control, People Counting & PPE Detection
- Electronic Logbook Management
- Theft or Malicious Damage Prevention



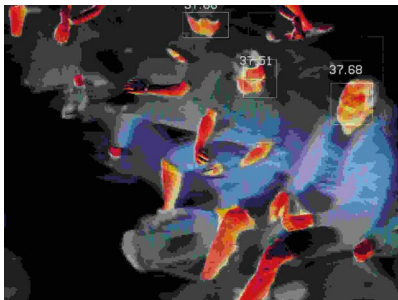
Conveyor Solutions

- Belt & Roller Monitoring
- Handheld Maintenance Tools
- Theft or Incident Detection
- Distributed temperature monitoring
- Distributed acoustic on conveyor belts



Lamp room Monitoring

- Storage/Charging Bay Monitoring
- Fire Detection and Prevention Solutions
- Facial Recognition - Facial in vs Facial out gender ID
- People Counting and Heatmapping
- Unauthorized Personal Detection
- Accurate Equipment Allocation



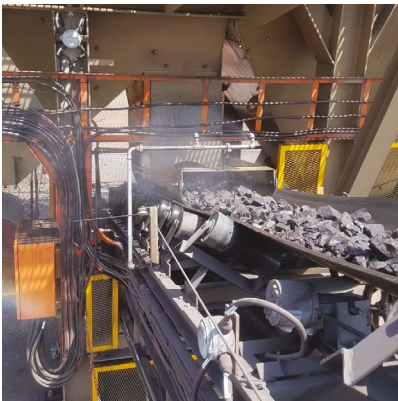
Temperature Screening & Reporting

- Temperature Screening
- Time & Attendance
- Facial Detection / No Touch Solutions
- Integrated Solutions



Environmental Monitoring systems

- Communication: 10/100 Base-T Ethernet, RS-485
- Supports Protocols: Modbus TCP/IP, TCP/IP, UDP, HTTP, Modbus RTU
- Accuracy: +/- 0.1% or better
- Max Sensor distance: <= 2000m*



Dust Management Solutions

- Environmentally friendly
- No toxic elements
- No solvents
- Ammonia free
- Glycol free



Dust Suppression

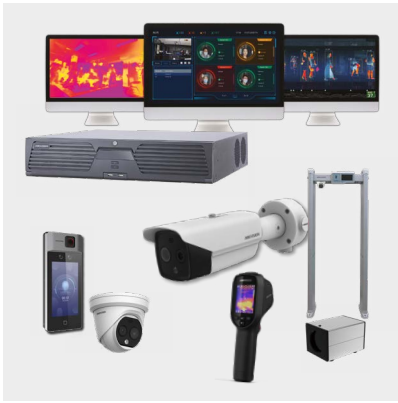
- Dust suppression liquid
- Available in 5L and 20 L



Custom Solutions

Universal Controller

- Communication: 10/100 Base-T Ethernet
- Supports Protocols: Modbus TCP/IP, TCP/IP, UDP, HTTP, Modbus RTU
- 6 x Relay Outputs*
- AC Rating 120V @ 0.5A - DC Rating 30V @ 1A



Custom Solutions

HIKVISION

Complete Monitoring and Control Systems

- High sensitivity thermal module with 384 x 288 resolution
- Leading thermal image processing technology: Adaptive AGC, DDE, 3D DNR
- Supports multiple palettes



Custom Solutions

Long Range Acoustic Hailing System

- Long distance directional speaker
- Up to 600m clear sound transmission
- Broadcasts bird distress calls and predator cries
- With directional sound wave, the sound beam angle is 30°



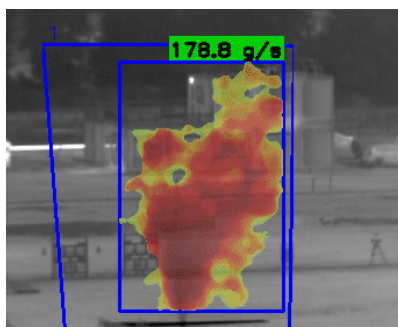
Perimeter/Asset Protection Solutions

- Intruder Detection
- Long Range Thermal Solutions and Radar Tools
- Behaviour Monitoring



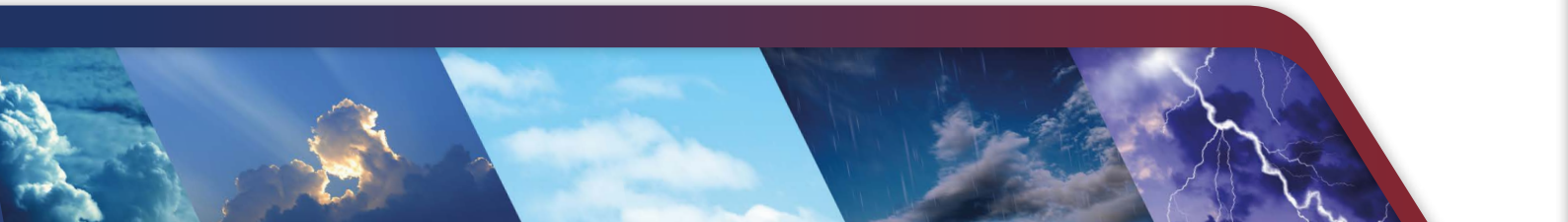
Smart Mining Surveillance

- Equipment Monitoring
- Environmental Monitoring
- Area Monitoring



Intelligent Thermography Solutions

- Real-time condition monitoring



7. CONSULTING



AUDITING

- Third party reviews
- Health audits
- System optimization
- System fault finding
- Standards, Code of Practices, Special procedures



OCCUPATIONAL HYGIENE

- Supply system and maintain Hygiene data base.
- Sample preparation and analysis
- Conduct investigations.
- Design, supply and install electronic units for real time condition monitoring



DRAFTING

- Standards
- Code of Practices
- Procedures
- Group Guidelines
- Trade off Studies
- Risk assessments



FIRE MANAGEMENT

- Underground fire risk analysis and modelling to optimize mine design and escape route planning
- Site inspections for routine preventative maintenance
- Fire extinguisher and safety equipment testing
- Reconditioning of all types of fire extinguishers and hose reels
- Refilling of used or expired fire extinguishers
- Supply of SANS-approved portable fire equipment
- Supply of SANS-approved fire safety signage
- Installations & relocations of portable fire equipment
- Certificates of compliance
- Accurate record keeping for hassle-free insurance claims
- Reporting programs for accurate and instant reports
- Emergency Control Room (ECR) compliance



DUST SUPPRESSION EXTRACTION

- Design, manufacture, install, commission and do pre sign off
- Wet and dry systems
- High and low pressure systems



VENTILATION & REFRIGERATION ENGINEERING

- Desktop studies
- Feasibility studies
- Pre-feasibility studies
- System modelling
- Review of designs
- Short and long term planning
- Legal appointment assistance
- Cooling and or heating systems design
- Supply of cooling cars, bulk air coolers, low and high pressure
- Supply of ventilation doors/louvres, low or high pressure
- Design, supply and install electronic units for real time condition monitoring
- Installation of Refrigeration plants



OTHER SERVICES

- Lamp room management, Lamp room compliance Audit
- Ventilation Controls Construction
- Underground Sanitation
- Other specific client request



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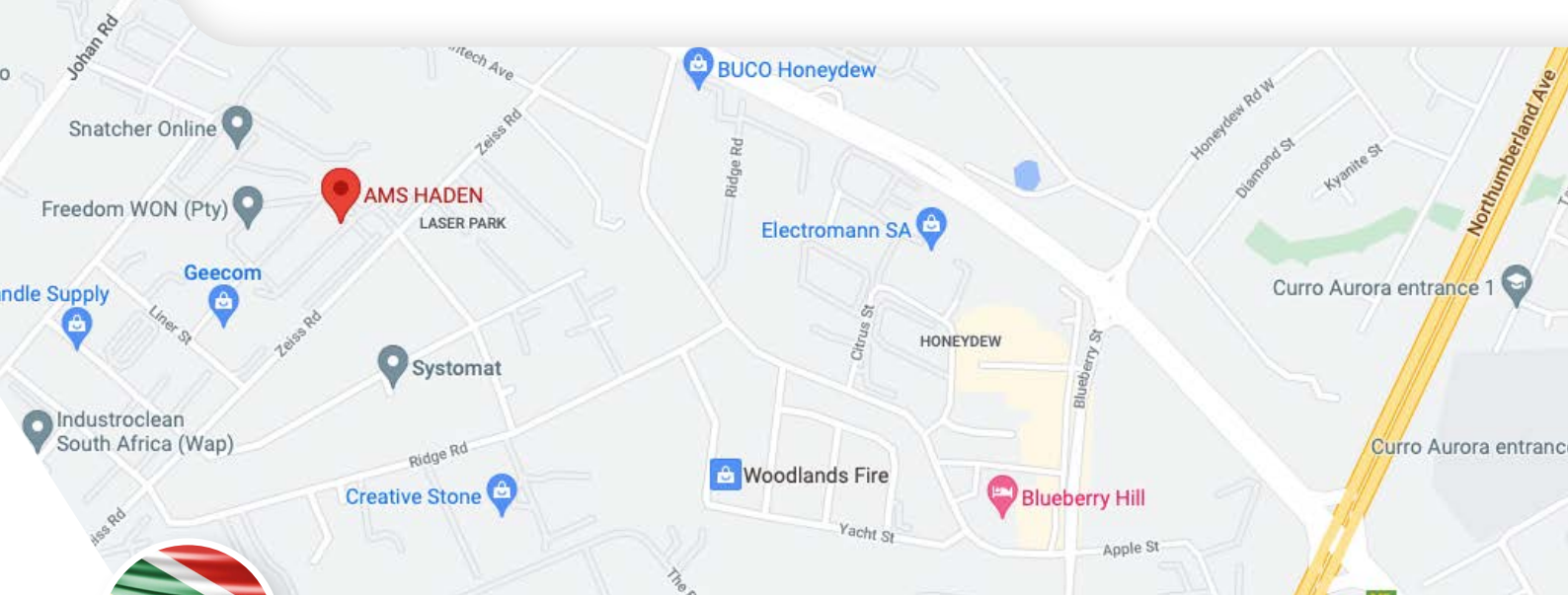


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INNOVATING TOWARDS ZERO HARM