



Axis Solutions Limited

Sustainable Energy & Environment Solutions

www.axisindia.in



AXIS AT GLANCE



Dr. Bijal Sanghvi

Managing Director

“Since 1999, with a vision to provide efficient, reliable and sustainable solutions for increasingly complex industrial environments. We, Axis Solutions Limited, emerge as a world-class System Integrator & innovative solutions provider to cater to oil & gas, petrochemicals, refineries, power plants, minerals & other engineering verticals globally through our worldwide regional offices by the team of 240+ that drives Axis passionately in our facilities with engineering, manufacturing, testing, research, and development to provide solutions in Analytical specifically for Gas, Water, Hydrocarbon measurement, Thermal management, Pressure-regulation, industrial automation, IIoT & Industry 5.0.”

OUR VERTICALS

Analytical Systems

Integrated House / Shelter

- Analyzer House / Shelter
- Process GC Shelter
- Passive Cooled Shelter

Integrated CEMS / GAS

Integrated SWAS

Purge Panel

System Solutions

- Calibration Unit
- Aspiration System
- Close Loop SHS
- Liquid Sample Recovery System
- Auto Change Over Unit
- Double Block and Bleed System
- Validation System for HC Liquid

Analyzer Packages/ Solutions

Blending Analyzer System

Sulphur Recovery Unit

Kiln/Coal Mill

Process Packages

Analyzer with House/Shelter

Weather Station

Liquid & Water Solutions

FGD

CAAQMS

CEMS

SWAS

SCR

Axis Products

AMISON | GAS Components

baspa | SWAS Components

Typhoon | Pressure Regulators

snowind | Thermal Systems

- Ex HVAC / HVAC
- Ex AC / Split AC
- Ex Proof Chiller
- Vortex Cooler

Services & MRO

Health check up

Installation

Commissioning

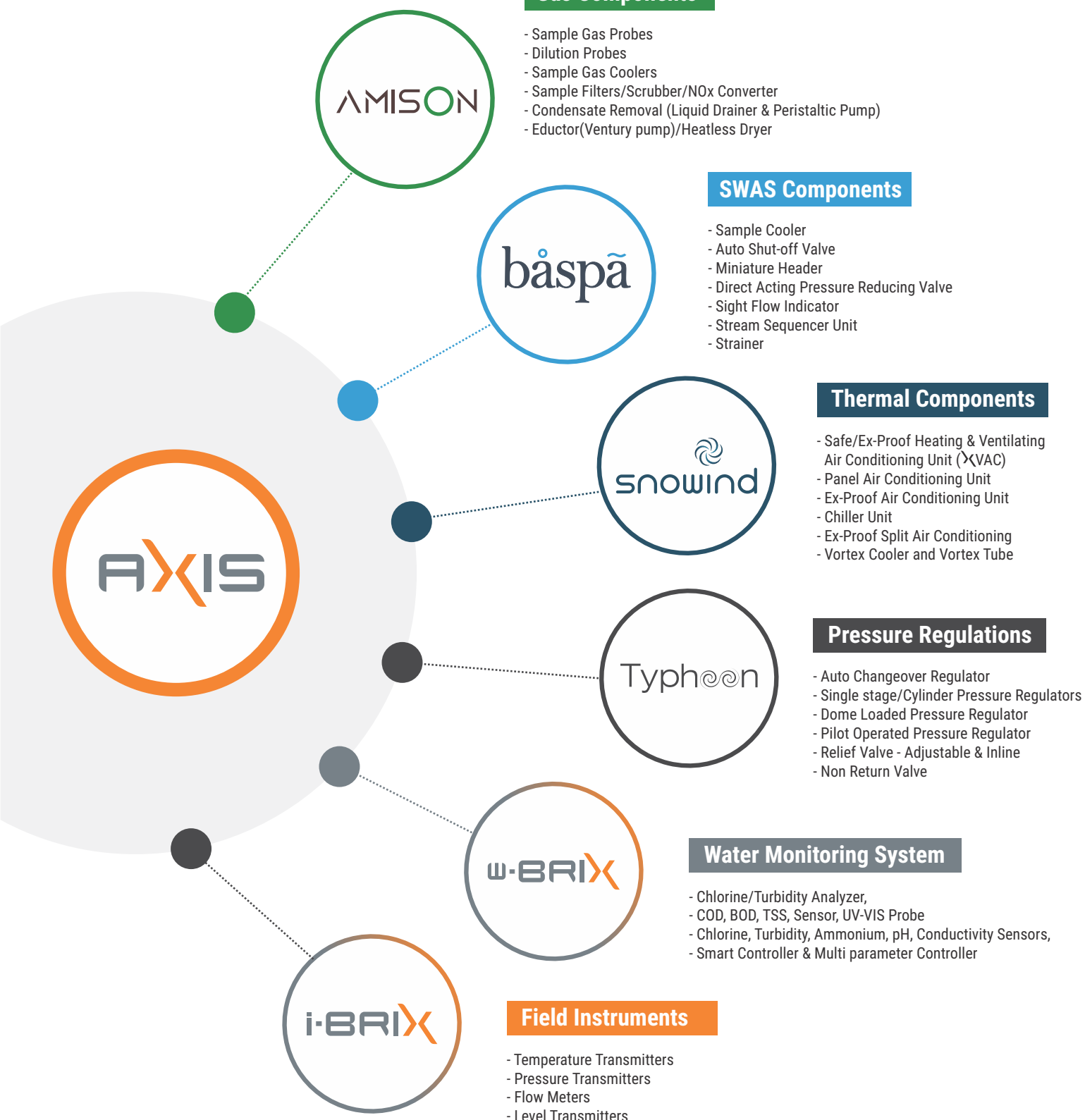
AMC

CMC

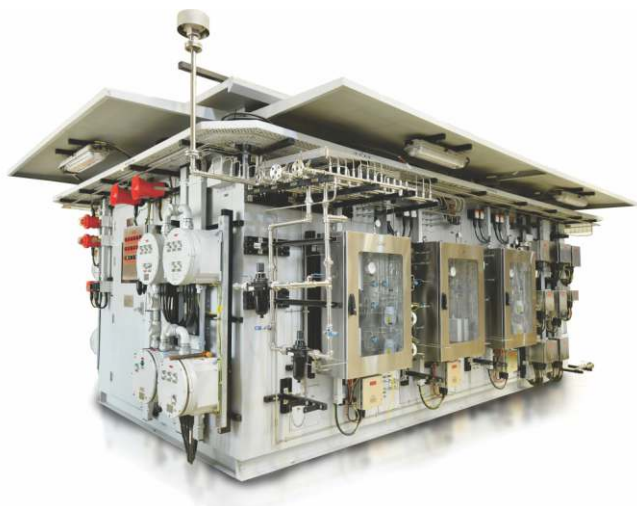
Extended Warranty

Retrofitting

Product Horizon



Analyzer House / Shelter



- » Suitable for Zone 1 or Zone 2, GR. IIC or IIA, IIB
- » SS 304, SS 316, GI options available

Applications

- » Flow metering
- » Gas chromatograph
- » Blending, SRU & Process Analytical

E-House



- » Custom sizing available
- » Inbuilt auxiliary equipment options

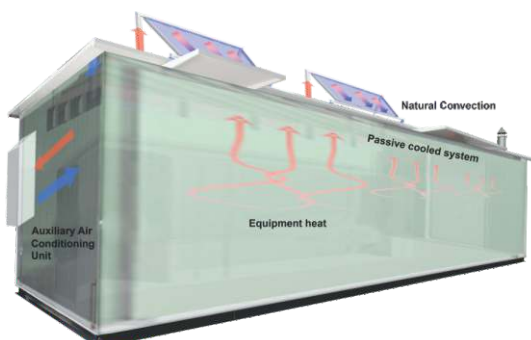
Types

- » Fire Retardant
- » GRP
- » Fire Resistance
- » Blast Proof

Applications

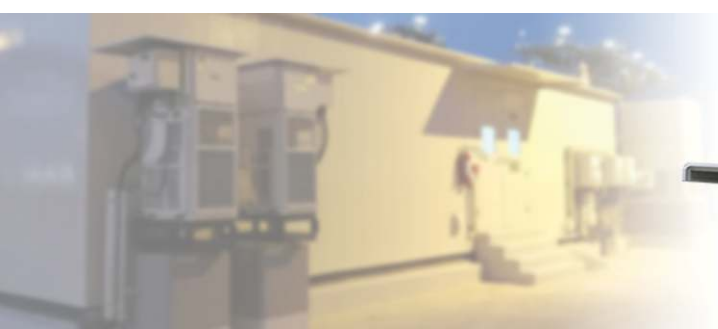
- » Electrical room E-House
- » Power & Communication
- » Data storage E-House
- » Instrumentation E-House

Passive Cooled House / Shelter



- » 10-15°C Cooler than daytime ambient*
- » No Electricity, No maintenance, Eco-Friendly
- » Plug and play installation

* Depends on Day & Night Temperature Difference



Purge Panel



IP65

- » HC accumulation is taken care
- » Best economical option

Types

- » Purge panel for Zone 1 / Zone 2
- » Purge panel with Ex AC / IP65
- » Purge panel with Vortex cooler

Gas Analysis System

GAS



- » Hot extractive
- » Dilution technology
- » Multi measurement system

Measurement

- » CO & CO₂
- » CH₄
- » SO₂
- » O₂
- » THC
- » NOx, NO
- » SPM
- » Opacity & Particulate
- » Zirconia Oxygen Analyzer

AMISON Gas Components



Sample Gas Probe



Blow Back Sample Gas Probe Box



Sample Gas Cooler



Ex-Proof Sample Gas Cooler



Sample Gas Filters



Ex-Proof Sample Gas Probe



Dilution Probe & Controller



Peristaltic Pump / Liquid Drainer



NOx Converter



Steam and Water Analysis Systems

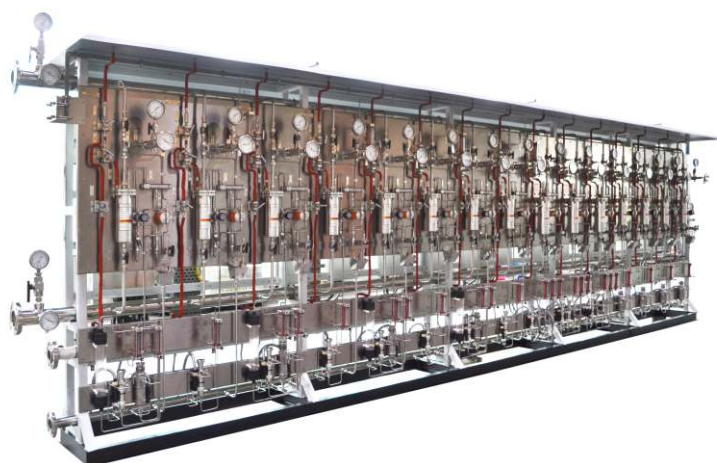
SWAS - Single/Multi Stream



- » Compact design
- » Efficient cooler design
- » Ease of Installation
- » ASME PTC standardised sampling system
- » Open rack type / Walk through panel / Inside shelter
- » Online analysis with grab Sampling

Measurement

- » pH / ORP
- » SC, CC, CD
- » Dissolved O₂
- » Chlorine
- » Silica
- » Sodium
- » Phosphate
- » Hydrazine
- » Hydrocarbons in Water
- » Oil in Water



bašpā SWAS Components



Sample Cooler



Miniature Header



Direct Acting Pressure Reducing Valve



Auto Shut-off Valve



Sight Flow Indicator



Strainer



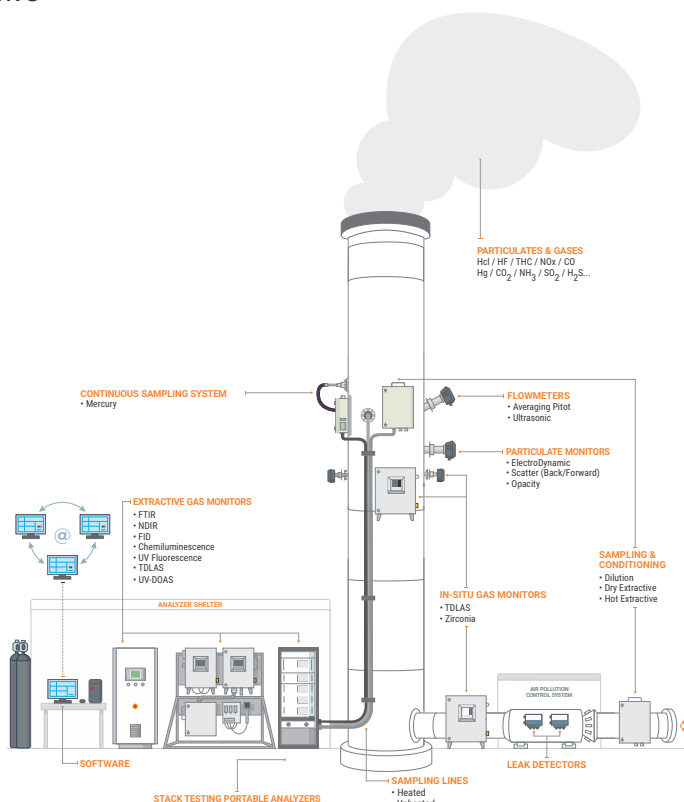
Back Pressure Regulators



Cation Column



Continuous Emission Monitoring System CEMS

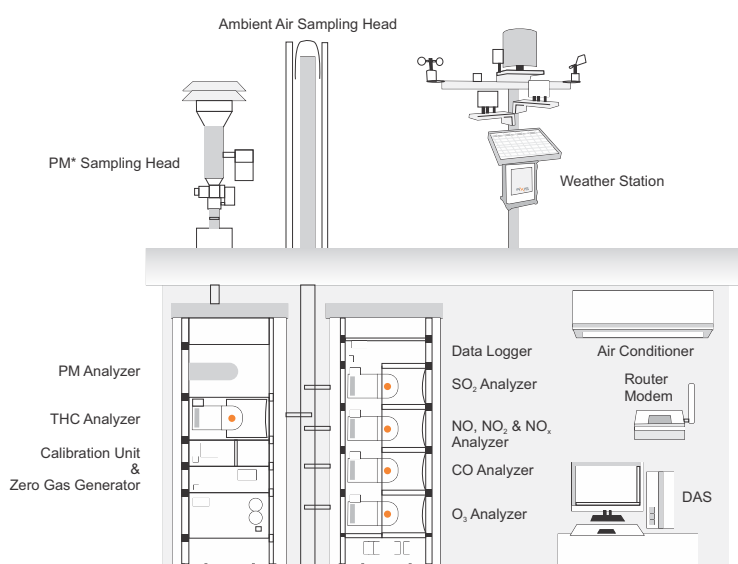


- » Data acquisition System
- » Auto calibration System
- » 19" Rack mounted analyzer

Measurement

- » SO_x, NO_x, CO & CO₂
- » O₂
- » Mercury
- » Stack Dust Monitor
- » Stack Flue Gas Flow Meter
- » Temperature and Moisture
- » Differential Pressure Transmitter

Continuous Ambient Air Quality Monitoring System - CAAQMS



Measurement

- » SO₂
- » CO, CO₂
- » PM_{2.5} & PM₁₀
- » NO, NO₂ & NO_x
- » O₃ (Ozone)
- » Metrological Sensors
- » NH₃
- » VOC (BTEX)

Weather Station WS



Sensors



➤ Heating and Ventilating Air Conditioning Unit XVAC



- » Industrial heavy-duty design
- » Redundant unit / Blower option available
- » 3, 5, 7.5, 10, and 12-ton capacity options
- » (-ve) °C to 60° C Customizable ambient design
- » Ease of Maintenance



➤ Ex-Proof AC



- » Split and Standalone type Models
- » Designed for 0 to 60° C ambient temperature
- » 110/230/415/480 VAC, 50/60Hz input supply
- » 0.6, 1, 1.5, 2 Ton Capacity



➤ Ex-Proof Chiller



- » Suitable to Zone 1 & 2, IIB + H2
- » Efficient cooling capacity
- » High-Quality CRCA, SS 304, SS 316 options
- » Individual electrical components are ATEX / PESO certified



Calibration Unit

For Zirconia Oxygen Analyzer



Auto Calibration Unit



Manual Calibration Unit

Aspiration System



Suitable for Gas Detectors

Close Loop Sampling System

CLSS



Sample Cylinder DOT/TPED approved

Auto Change Over Unit

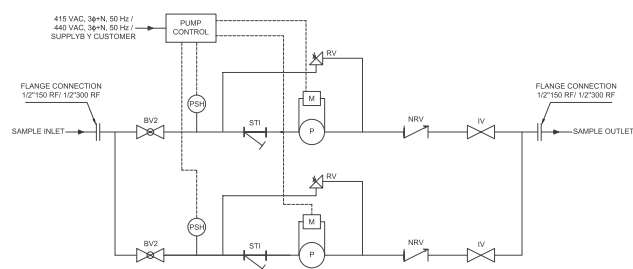


Liquid Sample Recovery System

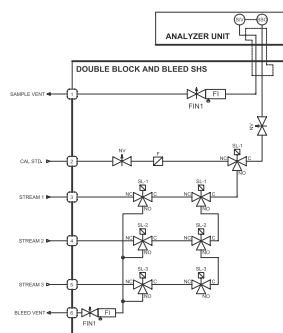


Suitable for Zone 1 or 2 Gr IIA/B, IIB+H2

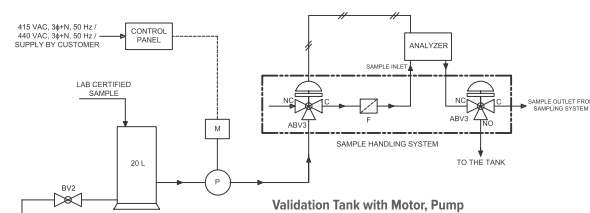
Fast Loop System



Double Block & Bleed System



Validation system for HC liquid



Typhoon Pressure Regulators



Auto Change Over Regulator



Single Stage Pressure Regulators



Dual Stage Cylinder Pressure Regulator



Piston Type Pressure Regulator



Back Pressure Regulators



High Precision Pressure Regulator



Inline Relief Valve / Adjustable /
Inline Filter



Pilot Operated Pressure
Reducing Valve



Dome Loaded Pressure Regulator

snowind Thermal Components



Indoor/Out Door Air Conditioning Unit

IoT Enabled



Safe Area Chiller Unit



Peltier Air Conditioning Unit



Split Air Conditioning Unit



Vortex Cooler & Tube

Technology Product Presentation

W-BRIX

Water Analyzer



**Online Water Analyzer &
COD, BOD, TSS, Colour**



**Multiparameter
Controller**



**Automatic Chlorine
Dosing System**

- COD, BOD, TSS, pH, NO₃-N, NH₄-N, TN, Turbidity, Colour, Cond., DO, NH₄, ORP, Nitrate, Residual chlorine, FC, OIW, Oil & Grease, Fluoride, Ferrous, Hardness, Phenol, Phosphate, Iron, Total phosphate, Sulphide, Arsenic.

Sensors

- In-built Temperature and pH Compensation
- Robust & Waterproof (IP68)
- 1-sec On-line Realtime Measurement
- Factory pre-calibration for easy set up



Chlorine Sensor



Turbidity Sensor



Conductivity
Sensor



Dissolved Oxygen
Sensor

Sensors



UV-VIS Probe



Ammonium
Sensor



pH Sensor



Oil in Water
Sensor

- Fast and accurate measurement
- Temperature Compensation
- Field calibration for more accuracy

Process Instruments

i-BRIX

- Smart, Head & Din Rail Transmitter
- Single Instrument for Multi-parameter
- Display Auto Shut-Off Facility
- Bluetooth, IoT & Hart Available
- Weatherproof IP65, IP67



**Pressure
Transmitter**



**Electromagnetic
Flow Meter**



**Ultrasonic level
Transmitter**



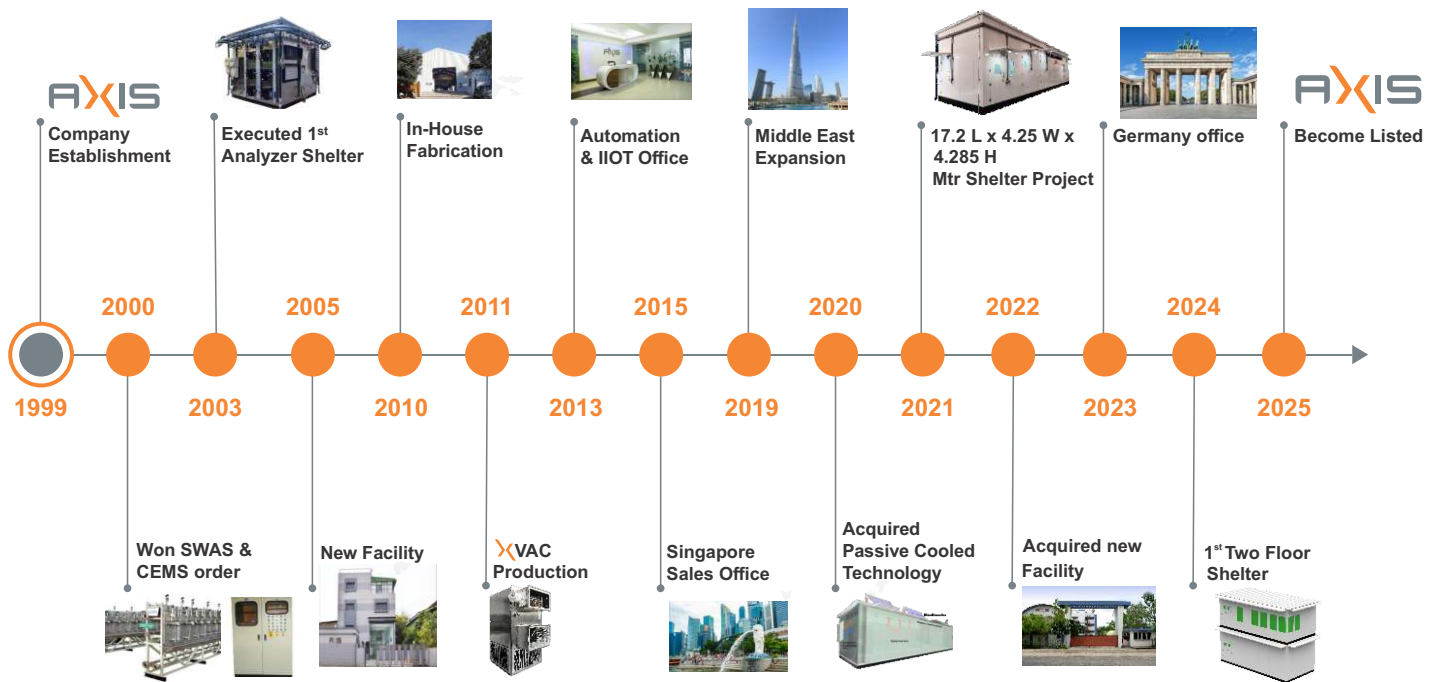
**Ultrasonic
Flow Meter**



**Temperature
Transmitter**

Our Journey

1999 Onwards



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India-382430

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Kathwada GIDC, Kathwada
Ahmedabad, Gujarat
India-382430

Manufacturing Unit - 3
332, Road No 6
Kathwada GIDC, Kathwada
Ahmedabad, Gujarat
India-382430

Manufacturing Unit - 4
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