ASTREON | AUTOMATION

ASTREON Automation Solutions Pvt Ltd

Product Catalogue

SENSORS / INSTRUMENTATION / AUTOMATION



One Stop Solution for Automation

www.astreonautomation.com

Pressure and Temperature



Pressure and Differential Pressure

Gauges, switches and transmitters.

Measuring range Vacuum to 1600 bar.

Units mmWC, bar, psi, kg/cm² and Pa.

Outputs 4–20 mA, 0–10 V or smart type.

Accuracy General purpose ±0.5% FS to high precision ±0.1% FS.

Wetted materials and media Stainless steel, silicon or specialised elastomers, selected for gases, corrosive liquids or oils.

Temperature

Gauges, switches, sensors and transmitters.

Gauges Bimetal and capillary; −100 to 950 °C.

Sensors RTDs and thermocouples J, K, R, S, T and B; −200 to 2300 °C across the range.

Outputs 4–20 mA, 0–10 V or smart type.

Accuracy Class A or ±1% FS, depending on instrument type.



Process Monitoring and Control



Flow and Level

Gauges, switches and transmitters.

Flow technologies Electromagnetic, thermal / thermodynamic and ultrasonic.

Pipe sizes and accuracy Typically 15 to 1500 mm+; ±0.5% to ±2% of reading or full scale.

Point level Vibronic tuning fork, float, point capacitance and RF admittance.

Continuous level Hydrostatic, differential pressure, radar, guided wave radar, magnetostrictive, capacitance and ultrasonic.

Level range A few centimetres in small vessels to 30–80 m in silos or tanks.

Wetted materials 316L stainless steel, Hastelloy, tantalum, titanium, PTFE or ceramic coatings.

Air Quality Control and Connectivity

Air quality monitoring with data acquisition and communications.

Pollutants SO_2, NO, NO_2, NOx, CO, O_3, NH_3 and benzene–toluene–xylene (BTX).

Meteorological sensing Wind speed and direction, ambient temperature, relative humidity, solar radiation and rainfall.

Sensor mounting 10 m telescopic or crank-up tower.

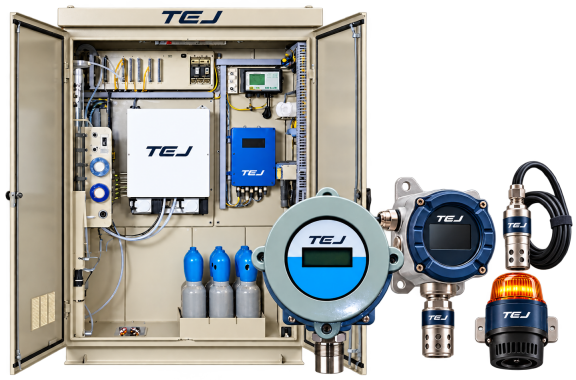
Data acquisition Dedicated DAS with remote monitoring, multiple channels and automated zero/span calibration.

Communications Leased line, broadband and GSM/LTE backup with periodic central server synchronisation.

Availability target 99.9% uptime design target, subject to system and network configuration.



Gas Analysis and Calibration



Gas Detection and Analysers

Portable handheld units and fixed plant installations.

Electrochemical Toxic gases including H_2S, CO, NH_3 and SO_2; also O_2 monitoring.

Catalytic / pellistor Combustible gas and lower explosive limit (LEL) monitoring.

NDIR / IR CO_2, CH_4 and hydrocarbon vapours; cross-sensitivity protection as specified.

Thermal conductivity TCD for high-concentration gases such as H_2.

Housing and protection Flameproof aluminium alloy or SS316; IP66 / IP67 options.

Hazardous area options Intrinsic safety or flameproof; model-specific IECEx, ATEX, PESO, CIMFR or Class I Division 1 Groups A–D / Zone 1 or Zone 0 approvals.

Operating temperature −20 to +55 °C; up to +65 °C depending on enclosure.

Calibrators

Source, measure and simulate process variables.

Variables Voltage, current (4–20 mA), resistance, thermocouple and RTD temperature, pressure, relative humidity and dew point.

Power Rechargeable lithium-ion packs, for example 7.2 V / 4400 mAh, or AA alkaline batteries.

Battery life Typically 8 to 25 hours of continuous operation.

Calibration and traceability Typical interval 1 to 2 years; traceability to national or international standards such as NIST / PTB.

Documentation and interfaces Documenting models offer USB / RS-232 for automated procedure download and data logging.



Detailed specifications will be shared on request by email or phone.

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Ranges, accuracy, approvals and operating conditions depend on the selected model and application.