ASTREON

SENSORS &
INSTRUMENTATION

INDUSTRIAL SENSING & AUTOMATION.

Solutions for process, pharma, refining and manufacturing industries.



FROM SENSOR TO APPLICATION

ASTREON supports industrial measurement through application review, instrument selection, sourcing and integration. We align the instrument, installation and signal chain with your process.

Technical tables show indicative industry selection data, not guaranteed ASTREON model ratings. Confirm the final range, accuracy and configuration against the selected manufacturer datasheet.

EXPLORE THE SENSOR RANGE

Pressure	03	Differential pressure	03	Temperature	04
Humidity	04	Flow	05	Level	05
Load & weighing	06	Gas detection	06	Dew point	07

CALIBRATION SETUP PLANNING



ILLUSTRATIVE WORKSTATION

Pressure references, temperature sources and process-signal tools, selected around the instruments being checked and the required results workflow.

PRESSURE MEASUREMENT

PRESSURE

PUMPS / COMPRESSORS / HYDRAULICS



Select compact transmitters, process instruments or local gauges for pumps, compressors and hydraulic systems. Match the measuring span, overload capacity, wetted materials and connection to the medium. Confirm the total error at operating temperature.

Range options	0-0.4 to 0-1600 bar; vacuum variants
Units	bar, psi, kPa, MPa or kg/cm²
Outputs	4-20 mA or 0-10 V; smart variants by model
Max. error guide	±0.25 / ±0.5 / ±1% span at adjustment temp.
Wetted parts	Stainless steel; diaphragm and seals to suit media

DIFFERENTIAL PRESSURE

FILTERS / AIR HANDLING / PROCESS LINES



Compare pressure across filters, cleanrooms or process equipment. Air-DP transmitters use low measuring spans; process-DP instruments require suitable wetted materials and static-pressure ratings. Select the port arrangement, span and output for the installation.

Air-DP spans	0-250 to 0-2500 Pa; selected ranges
Air-DP accuracy	±0.25 / ±1 / ±2% FS, by configuration
Outputs	4-20 mA / voltage; process models: HART
Media	Air or compatible gases; process duty separately
Connections	H/L hose barbs or process manifold connections

Indicative technical guide; confirm model-specific ratings. See page 2.

ENVIRONMENTAL MEASUREMENT

TEMPERATURE

MACHINERY / VESSELS / THERMAL PROCESSES



Choose connection-head, cable, hygienic or thermocouple assemblies for machinery and process lines. Match the element, immersion length and sheath to the service. Thermowells and transmitters are selected separately to suit installation and control requirements.

RTD range guide	-196 to +600 °C across suitable assemblies
TC range guide	K/N: -40 to +1200 °C, class 2 examples
Elements	Pt100 / Pt1000; thermocouple type to suit duty
Signal chain	2/3/4-wire RTD; TC mV; transmitter: 4-20 mA
Construction	Stainless sheath, selected length and connection

HUMIDITY

HVAC / STORAGE / CONTROLLED ENVIRONMENTS



Monitor air humidity and temperature using wall, duct or remote-probe arrangements. Select the filter and mounting for contamination, airflow and maintenance access. Accuracy must be assessed across the actual humidity and temperature conditions.

Relative humidity	0-100% RH
Temperature guide	-40 to +80 °C, probe-dependent
Accuracy example	±1.5% RH at 0-90% RH and 0 to +40 °C
Outputs	Voltage or RS-485, selected by model
Construction	Room / duct / remote probe; suitable filter

Indicative technical guide; confirm model-specific ratings. See page 2.

PROCESS MEASUREMENT

FLOW

WATER / PROCESS LIQUIDS / GAS SYSTEMS



Select electromagnetic, thermal, turbine or ultrasonic measurement for the fluid. Define the working flow, pipe size and installation conditions. The conductivity limit and numerical examples below apply specifically to electromagnetic liquid measurement.

Magmeter sizes	DN 25-3000, configuration-dependent
Velocity guide	0.01-10 m/s; select diameter for working flow
Error example	±0.5% of reading plus ±1 mm/s
Liquid suitability	Conductivity ≥5 µS/cm; suitable liner/electrodes
Outputs	4-20 mA, pulse or digital; selected by model

LEVEL

TANKS / VESSELS / SILOS



Select continuous measurement or point detection for tanks, vessels and silos. Radar, hydrostatic, float and vibrating-fork instruments address different duties. Review vessel geometry, deposits, foam, vapour and mounting before selecting the process connection and materials.

Principles	Radar / hydrostatic / float / vibronic / capacitive
Radar span guide	Up to 120 m with a suitable radar configuration
Radar error guide	±1 mm under specified reference conditions
Outputs	4-20 mA / HART; point switches: relay options
Process contact	316L / PTFE and other media-compatible options

Indicative technical guide; confirm model-specific ratings. See page 2.

LOAD & GAS MEASUREMENT

LOAD & WEIGHING

PLATFORMS / HOPPERS / BATCHING



Choose bending-beam, single-point, S-type or compression cells for the structure and load path. Size each cell for dead load, working load and overload. Compatible mounting hardware and separate electronics complete the weighing system.

Capacity example	Bending-beam variants: 5 kg to 1 t per cell
Cell signal	Strain-gauge bridge; mV/V output
Wiring	4-wire or 6-wire; matched excitation required
Electronics	Separate indicator/transmitter: 4-20 mA or digital
Construction	Steel / stainless; sealing and mounts to suit duty

GAS DETECTION

PROCESS AREAS / UTILITIES / PLANT MONITORING



Specify the target gas first. Electrochemical, infrared and catalytic technologies serve different gases. Confirm units, cross-sensitivity, calibration and alarms. Any hazardous-area approval must match the exact instrument configuration and installation.

Oxygen example	0-25% vol O_2; gas-specific sensor
Combustible guide	0-100% LEL; calibrated for the named gas
Toxic gases	ppm ranges selected for CO, H_2S and other gases
Signal options	4-20 mA / HART; relays or fieldbus by model
Selection checks	Gas, response, calibration and exact approvals

Indicative technical guide; confirm model-specific ratings. See page 2.

DEW POINT & CALIBRATION

DEW POINT

COMPRESSED AIR / DRYERS / DRY GAS



Monitor moisture in compressed air, dryers and suitable dry gases using compact probes, remote displays or sampling arrangements. Define pressure or atmospheric dew point explicitly. Match the sensor, pressure rating and sampling conditions to the required dryness.

Dew/frost point	Typical measuring range: -70 to +60 °C
Accuracy guide	±2 °C within the specified accuracy envelope
Pressure example	0-50 bar absolute for suitable probe variants
Outputs	4-20 mA / voltage / RS-485, model-dependent
Installation	Direct insertion or controlled sample chamber

CALIBRATORS

ELECTRICAL / TEMPERATURE / PRESSURE



Our calibrator offering supports commissioning and maintenance. Multifunction units source electrical and temperature-sensor signals; dry blocks and pressure pumps provide physical references. The benchmarks below apply to separate equipment types, with final model selection required.

DC current	Source 0.100-22.000 mA; measure up to 110 mA
Source accuracy	±(0.01% output + 3 µA); 1 yr, 18-28 °C, 5 min warm-up
Dry-block range	-25 to +150 °C at 23 °C ambient
Dry-block guide	Display: ±0.2 °C; stability: ±0.01 °C
Hydraulic pressure	0-1000 bar pump; matched reference required

Indicative technical guide; confirm model-specific ratings. See page 2.

ASTREON

LET'S SPECIFY
THE RIGHT SENSOR.

Tell us what you need to measure, where it will operate and how it connects to your process.

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EXPLORE ONLINE

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Grouped images show representative product concepts, not confirmed stock. Display readings are illustrative. Technical data is an industry selection guide; model availability, ratings and approvals require confirmation.