



ACRYON ENGINEERING & INSTRUMENT PVT LTD

Established 1993. Over 32 years of high-precision engineering for global industrial standards.

ESTD. 1993

Our Profile

Under the leadership of Arvind Kumar Jain, Acryon has become a hallmark of reliability in thermal sensing instruments. We specialize in fabrication of components that survive where standard equipment fails. Our quality compliant processes serve the backbone of Indian industry with uncompromising accuracy. Our Instruments undergoes rigorous multi-point lab testing to ensure maximum linear stability and process reliability.

ACCURACY YOU CAN TRUST. RELIABILITY THAT KEEPS YOU GOING.

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SECTORS WE SERVE

Mission-critical thermal solutions for India's core infrastructure and manufacturing units.



Steel & Metal



Power Stations



Pharmaceutical



Food & Dairy



Cement & Glass



Petrochemical



Plastic & Rubber



Research Labs



Automotive



QUALITY COMPLIANT STANDARDS

Our sensing elements are verified for linear accuracy across high thermal cycles, minimizing process deviation and downtime.

** SOLUTIONS PROVIDED ARE NOT LIMITED TO THE ABOVE SECTORS; CUSTOMIZED ENGINEERING AVAILABLE FOR ANY INDUSTRIAL PROCESS HEAT REQUIREMENT.*

THERMOCOUPLE/RTDs

1. Precision Thermocouples (Base & Precious Metal)

TYPE	TECHNICAL METALLURGY	RANGE & SHEATH METALLURGY
Type K	Chromel / Alumel	0 to 1260°C Inconel 600, Pyrosil, SS310
Type J	Iron / Constantan	0 to 760°C SS316, Carbon Steel
Type N	Nicrosil / Nisil	0 to 1200°C High Stability Oxidative Grade
Type R/S	Pt-Rh 13%/10%	Up to 1450°C CER-710 Recrystallized Alumina
Type B	Pt-Rh 30% / 6%	Up to 1700°C Double Alumina Protection



2. Resistance Temperature Detectors (RTDs)

CLASS	ELEMENT TECHNOLOGY	ACCURACY & GRADE
Standard	PT100 / PT1000	Class A, 1/3 DIN, 1/10 DIN Accuracy
Sanitary	Tri-Clover (Pharma)	SS316L Electropolished (< 0.4 Ra)
Vibration	Bearing RTD	Slot / Tip-sensitive (Spring-loaded)
Surface	Washer/Leaf Type	Machinery Surface Measurement

** TECHNICAL SPECIFICATIONS LISTED ARE NOT EXHAUSTIVE. WE OFFER BESPOKE SENSOR DESIGNS FOR NON-STANDARD PROCESS GEOMETRIES.*



THERMOWELLS

Ruggedized protection for sensors in high-pressure, corrosive process flows (ASME PTC 19.3 Compliant).

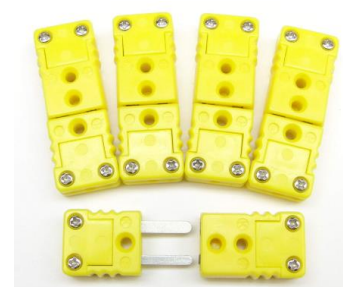
CONSTRUCTION	TECHNICAL VARIANT	METALLURGY & COATINGS
Drilled Barstock	Tapered / Stepped	SS316L, SS310, Inconel 600, Monel 400
Fabricated	Pipe-type Welded	SS304/316, Hastelloy C-276, Titanium
Mounting	Flanged / Threaded	ANSI / DIN Flanges, NPT / BSP Threads
Specialized	Surface Treatment	Teflon (PFA/PTFE) / Tantalum Sleeve



Industrial Instrumentation Spares

- ✓ SS Compression Fittings
- ✓ Ceramic Terminal Blocks
- ✓ Flameproof Heads (Ex-d)
- ✓ High-Temp Connectors
- ✓ NPT/BSP Adaptors
- ✓ Adjustable SS Flanges

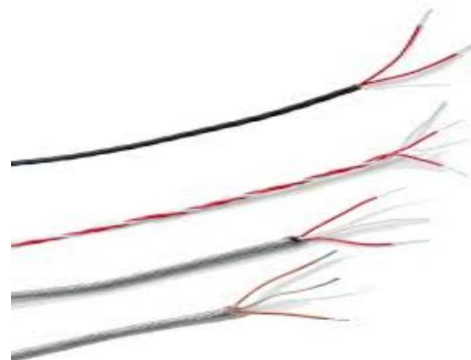
** MANUFACTURING CAPABILITIES EXTEND TO ANY CUSTOM METALLURGY AS PER CLIENT BLUEPRINTS.*



CABLES PORTFOLIO

1. Thermocouple Extension & Compensating Cables

GRADE	CODE / ALLOY	TECHNICAL CONSTRUCTION
Ex tension	KX, JX, TX, EX, NX	Matching element alloys for zero junction error.
Compensating	KCB, VX, SX/RX	Alternative alloys for cost-effective accuracy.
RTD Copper	Cu / Cu	Low resistance tinned copper (2,3,4,6 Core).



2. Insulation & Jacket Metallurgy

MATERIAL	TEMP RATING	INDUSTRIAL CHARACTERISTIC
PVC / PVC	Up to 105°C	General Purpose, Moisture Resistant
Teflon (FEP/PFA)	Up to 260°C	Chemical, Acid & Solvent Proof Grade
Fiberglass (FG)	Up to 480°C	High-Temp wrap/braid. Asbestos-free.
Kapton	Up to 400°C	Thin profile, Radiation resistant
Silicone Rubber	Up to 200°C	Extreme flexibility, steam proof

Al-Mylar Shielding

SS Over-braid (SSOB)

GI Wire Armouring

** CUSTOM MULTICORE COMBINATIONS AVAILABLE FOR NICHE APPLICATIONS.*



HEATING & AUTOMATION SOLUTIONS

HEATER TYPE	CONSTRUCTION	APPLICATION
Cartridge Heaters	High-Watt, Incoloy Sheath	Molds, Dies & Hot Runners
Mica Band	SS Sheath / Mica	Plastic Extruders & Molding
Ceramic Band	High-Temp Ceramics	Heavy-Duty Barrel Heating
Immersion	Tubular Flanged	Oil Tanks & Chemical Baths
Strip / Silica	Quartz Sheathed	Ovens & Lab Equipment



Process Automation & Indicators

SYSTEM	TECHNICAL FEATURES
PID Controllers	Digital On-Off Control, Multi-Channel Scanners
Data Loggers	Microprocessor based, USB/Ethernet Connectivity
Transmitters	Head Mounted / DIN Rail (4-20mA / HART)
Jumbo Displays	Panel Mounted LED/LCD Industrial Indicators



32 YEARS OF PRECISION

Defining Industrial Standards for Thermal Accuracy Since 1993.

A full-service manufacturing partner for instrumentation.



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