

CONTROL COMPONENTS

FOR MANUFACTURING AND INDUSTRIAL APPLICATIONS



HEAT DETECTORS
HUMIDITY PROBES
PRESSURE GAUGES
PRESSURE SWITCHES
PRESSURE TRANSDUCERS
PROCESS CONTROLLERS
& TIMERS
RTD SENSORS
SNAP DISCS

TEMPERATURE
TRANSMITTERS
THERMAL CUT-OUTS
THERMAL FUSES
THERMISTORS
THERMOCOUPLES & RTDS
THERMOSTATS &
THERMOMETERS

CAREL

Gems Sensors & Controls

lae ELECTRONIC

NGT

VE VALIDYNE ENGINEERING

FENWAL CONTROLS

KROHNE INOR

Limitor Temperature, Current, Time Under Control

Pixsys ELECTRONICS

WEST Control Solutions

HEAT DETECTORS & GAS IGNITION CONTROLS



Globally-Approved Detect-a-Fire® Mechanical Detectors Used to Initiate Fire and Overheat Alarm Systems

- 35 models (horizontal or vertical mount)
- Hermetically sealed with pre-set activation temperatures from 60°C to 385°C
- Can be supplied with thermostats or ATEX & tamper-proof enclosures



Catering Equipment



Hazardous or Explosive Environments



Industrial & Commercial Premises



Oil & Gas



ATEX-Approved Options



UL Standards Also Available

THERMAL CUT-OUTS, SNAP DISCS & THERMAL FUSES



NGT



Limitor
Temperature, Current, Time under Control

Range of Quality Components Trusted by Some of the World's Biggest Brands for Thermal Overload Protection

- Manual and auto reset
- Various materials
- Horizontal and vertical fitting
- International certifications for product quality and safety
- Bespoke options to suit individual applications



Boilers & Heating Components



Car Seat Heating



Catering Equipment



Domestic Appliances



Showers



UL Standards Also Available

THERMISTORS NTC | PTC



Custom Made Thermistors and Probe Designs

Typically supplied together with a cartridge heater and digital controller

- Vast array of leads, insulation materials, terminations, sheaths and fastenings
- Protect or monitor a device between -50°C and 150°C
- Customisable to meet specific design requirements



Air Conditioning



Cold Room Defrost



Commercial Refrigeration



Foodservice



Medical



UL Standards Also Available

THERMOCOUPLES RTD SENSORS & THERMOWELLS



Design-in Advice on a Huge Range of Customisable Thermocouples to Meet Specific Design Criteria

- Temperature options from 100°C to 2300°C
- All types available (eg. B, E, J, K, N, R, S & T)
- Available with terminal heads, blocks and fittings
- Can be fitted with transmitters for ATEX applications



Commercial Refrigeration



Food Production



Medical



Oil & Gas



Process Control Machinery



UL Standards Also Available



TEMPERATURE TRANSMITTERS



Universal Programmable Transmitters for Signal Conditioning, Thermocouple and RTD Inputs

- Din-rail or head-mounted versions
- Simple configuration
- Good accuracy and functionality
- Available with ATEX and IECEx certificates



HVAC & Room Heating



Medical



Process Control Panels



Oil & Gas



ATEX Versions Available



UL Standards Also Available

PRESSURE SWITCHES



Piston/Diaphragm & Sealed Piston Switches from Compact Cylindrical Models to Larger Enclosed Units for Rugged Process Applications

- High sensitivity and accuracy
- Different enclosure materials
- Flying leads option available
- NEMA4 or NEMA4X certified
- ATEX & IP66-rated models available



Automotive



Food Production



Industrial Automation



Oil & Gas



Scientific Laboratory Equipment



UL Standards Also Available

PRESSURE TRANSDUCERS GEMS



Compact MEMS Low Pressure Sensors with Sputtered Thin Film Technology

- 5 to 600 psi (0.35 to 40 bar)
- All-stainless steel wetted parts & wide choice of electrical outputs, and electrical/pressure connections
- IP66 rated products available



Automotive



Food Production



Industrial Automation



Oil and Gas



Scientific Laboratory Equipment



UL Standards Also Available

PRESSURE TRANSDUCERS VALIDYNE | BARKSDALE



Ideal for Flow or Pressure Drop Measurements in High Pressure Hydraulic Systems

- Compact design and rugged construction
- Suitable for harsh environments
- Analog or digital versions
- ATEX models available



Automotive



Food Production



Industrial Automation



Oil & Gas



Scientific Laboratory Equipment



UL Standards Also Available



PRESSURE & TEMPERATURE GAUGES



Highly Accurate Stainless Steel Pressure Gauges

- 316-grade stainless steel to prevent corrosion
- ATEX-approved and IP65-rated models available
- Accuracy to EN-837-1 standards



Commercial Refrigeration



HVAC



Medical



Oil and Gas



Water Treatment



UL Standards Also Available

PROCESS CONTROLLERS & TIMERS



Process Controllers, Cycle Programmers, Timers and Counters, Some with PID Control

- Complete with multiple power supply & relay options
- Compact Din standard
- Easy to program
- Multi-programmable features



Chemical Storage Control



Food Production



Industrial Process Control



Medical



Plastic Moulding



UL Standards Also Available

THERMOSTATS & THERMOMETERS LAE ELECTRONIC | CAREL



Trusted and Reliable Digital Thermostats, Thermometers and Timers

- Easy to program
- Single or two stage output
- On/off or PID control with PTC, NTC, thermocouples and PT100 inputs available
- Customised options



Catering Equipment



Commercial Refrigeration



Cold Room & Freezer Defrost



Foodservice



Ovens



UL Standards Also Available

HUMIDITY SENSORS & PROBES



Selection of Humidity Probes and Handheld Meters

- Wide range of humidity sensors that are built to last
- Excellent accuracy and quality
- Hi-accuracy dual input thermometer (K & J type) with a range of -200°C to 1370°C



Bakeries



Craft Brewing



Grain Storage



Proving & Hot Cupboards



Research Laboratories



UL Standards Also Available



WHATEVER THE APPLICATION... A FEW SUCCESS STORIES

SPECIALISED COMPONENTS FOR LABORATORY EQUIPMENT

Some of our customers are responsible for the design of scientific research equipment - and the components we supply must meet their highly specific requirements or perform within narrow parameters.



For example, we advised Agilent Technologies in the UK on the use of pressure sensors from Validyne Engineering within their 1260 Infinity II Multi-Detector GPC/SEC System, which can be found in scientific laboratories around the world.

We also maintain a dedicated stock of components in our UK distribution centre, ready to be despatched to Agilent's production facility as required to meet demand.

Further Validyne pressure transducers are used by another Hawco customer in the UK within a range of particle size analysers, which are used by scientists and engineers in the chemical, physical and structural analysis of materials.

We support our OEM customers with a wide variety of control requirements, including catering equipment, food production, refrigeration, car production, industrial automation, plastic injection moulding, oil and gas and research laboratories.

FIRE SUPPRESSION FOR FOOD PRODUCTION

Fire suppression is essential in food production facilities where hot oil is used. One of our customers supplies high pressure, water mist fire suppression systems to some of the largest snack manufacturers in the UK - and we supply the Fenwal Detect-a-Fire heat detectors required for these crucial systems.

We also work with foodservice equipment manufacturers, helping them integrate Fenwal heat detectors inside the extraction systems that sit above oil fryers in commercial kitchens and food outlets.



WIDE VARIETY OF OVERLOAD PROTECTION

Every year, we supply over one million NGT thermal cut-outs in a diverse range of products.

These include the Henry Hoover range of vacuum cleaners, hot water boilers, electric showers, the wiring looms inside plant machinery manufactured by JCB and even ski boot ovens, which are used to customise the fitting of ski boots to individual customers.

OIL AND GAS PLATFORMS

One of the most important uses for heat detectors is to stop overheating in the oil and gas industry. Every production platform must have advanced fire suppression systems and as UK distributor for Fenwal products, we work with nearly every oil and gas company operating in the UK.

HEATING CONTROL FOR SEALED GLAZING UNITS

The production of double-glazing windows requires the precise control of heat to ensure they are sealed correctly. One of our OEM customers offers a quality range of hot melt machines used in sealed unit assembly lines.

We supply the company with Pixsys digital controllers featuring PID, which provides close control for separate heated zones. The controller also enables safety features, such as upper and lower temperature alarms, a built-in timer and pre-set programs for sealants without overheating. Further components include plate heaters, cartridge heaters, thermocouples, contactors and solid state relays, used for overload protection as part of the electronic drive control.



GOT A DESIGN PROBLEM? WE CAN HELP

Our engineers love a challenge. Every day, they work with a host of OEM customers, taking the time to understand their specific technical requirements and respond with a practical solution.

In our experience, no two projects are the same. Sometimes we will source the exact part to meet an existing design specification or set of technical drawings. Just as often, we will work with an in-house design team to investigate all viable solutions and assess which one is best suited for the outcome to be achieved.

Not every supplier can offer our level of in-depth product knowledge. This is based on an experienced team of technical advisers who have built strong relationships with our 250 specialised providers of quality components.

**Got a project in mind? Put our team to the test.
Need help finding the right component? Just ask Hawco.**

Our Team

- Experienced engineers across a range of sectors
- In-depth product knowledge
- Dedicated account management & on-site consultation
- Technical support always available

Our Company

- 40+ years' experience supporting OEMs
- Quality products from 250 suppliers approved to international standards
- Stock control & inventory solutions
- Part of Diploma PLC, an international group with a turnover of £450 million



**TO DISCUSS YOUR PROJECT, CALL OUR
TECHNICAL SALES TEAM ON +44 (0)1483 869 070
OR EMAIL YOUR ENQUIRY TO SALES@HAWCO.CO.UK**

We offer a full range of complementary process heating and electrical components. For further details, refer to our additional line cards - available on request - or visit www.hawco.co.uk for product and technical information.

