

Integrated Custom Systems

COMPACT PANELS

STANDARD MANIFOLDS & ASSEMBLIES

ELECTRONIC PRESSURE CONTROL

CUSTOM MANIFOLDS & ASSEMBLIES

AUTOMATED TEST BENCHES

STREAMLINE YOUR PROCESS



*Complete pressure control solutions,
from idea to implementation.*

TESCOM


EMERSON[™]
Process Management

TESCOM is an experienced provider of high quality manifolds, custom assemblies and systems for the control of pressure and flow. We can simplify your existing system or create a new one to help you streamline your process and in return, save you time and money.

TESCOM has built its reputation by providing innovative solutions for a large array of applications.

In addition to our custom experience, we make a broad range of standard pressure regulators, valves and electronic pressure control components.

As a supplier to worldwide government and key contractors, TESCOM builds components conforming to stringent military and international standards.









Custom integration systems simplify your pressure, flow & measurement applications!

TESCOM provides:

- Direct engineering support
- Electrical, mechanical software design capabilities
- Layout and packaging design
- Experience. A result from working with our extremely large selection of existing pressure and flow components: Ranges from vacuum to 30,000 PSIG [2000 bar]
- Design and manufacturing facilities in the USA, Germany and China
- Sales offices in most major cities around the world
- Serving a wide array of markets: Automotive, Aerospace & Defense, Life Sciences, Automation & Testing, Alternative Fuels, Oil & Gas and Diving & Life Support

TESCOM provides different levels of integration to match your application needs. From idea to implementation, whether simple or complex, TESCOM has the expertise to deliver the final product that meets or exceeds your expectations.

Standard Products & Custom Integrated Systems for hydraulic & pneumatic applications

Standard Mechanical Solutions	Closed Loop Control	Custom Solutions	Automation OR Test Stands?
<p>Manifold Blocks</p>  <p>Compact Panels</p> 	<p>Electronic Control</p>  <p>Configurable Kits & Panels</p> 	<p>Assembly</p>  <p>Panels</p> 	<p>Test Stands</p>  
<p>ENTRY LEVEL OF INTEGRATION → ADVANCED</p>			
<ul style="list-style-type: none"> • Easy configuration • Mechanical automation • Reduced leak paths • Reduced footprint • Custom designed to application 	<ul style="list-style-type: none"> • Electromechanical automation • Software enabled • High accuracy • Eliminate droop • Data acquisition 	<ul style="list-style-type: none"> • Integrate third party components • Eases preventative maintenance & troubleshooting • Subsystem for larger projects • Build to print or complete design & build 	<ul style="list-style-type: none"> • Complete system hardware & software • Networked or stand alone • Safety interlocks & FMEA • Factory Acceptance Test & documentation packages
<p><i>Services provided by TESCOM include design & engineering, documentation and assembly/test. TESCOM offers Control Implementation (PC Solution, Controller Solution, Hardware Only) and Data Management (Data Storage & Test Reports).</i></p>			

Burst & Proof Testing



Test bench allows accurate hydrostatic testing of car radiator hoses acc. to DIN EN ISO 1402 European standard. Inspects initial samples and randomly tests hoses during ongoing production.



Test stand allows hydrostatic durability and leak test up to 60,000 psi [4000 bar].



Test stand is for pressure testing of a variety of aero engine tubes over a wide pressure range. Ensures safe operation during testing and provides user with reliable results which can be stored in database for future reference.

Calibration



APT-Automated Performance Tester provides a test gas sequence for automotive exhaust analyzers to check the entire gas sampling path.

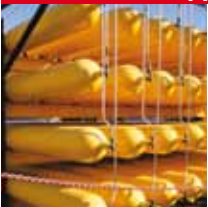


Control unit simulates pressure conditions at different altitudes.



Allows automated calibration and trimming of pressure sensors, pressure switches and gauges.

Gas & Fluid Supply



For central gas supply. A turn key system that provides Compressed Natural Gas (CNG) to a motor test stand.



Aerospace gas supply box provides a supply of cooling gas to sensors on infrared detector calibration equipment.



Precise high pressure bottle filling up to 12,000 PSIG [1000 bar] pressure for helium, argon and air. Meets cleanliness requirement to guarantee a bottle shelf life of 20 years.

Leak & Flow Testing



Quality verification of aerospace air ducts by measurement of the leak and flow capacity.



Mobile test rig monitor medical systems in hospitals. Pressure, flow capacity and leakage demands are verified.



Detailed testing for CO₂ permeation of sealing materials, fittings and hose assemblies.

Manifolds & Blocks



Gas delivery system for testing sensitive sensors; optimized to fit inside existing equipment with tight space restrictions.



Compact, durable manifold block minimizes potential leak paths for cascade bottle filling.



Hydrogen supply system for alternative fuel testing can remotely turn on or off any of the 6 hydrogen bottles while monitoring the pressure in each.

Automation



Electromechanical automation allows for data acquisition and networking. Provides extremely accurate & stable pressure control.



System integration allows for automated workflow and remote operation. Helps improve uniformity, efficiency and quality while ensuring worker safety.



Custom user interface and software design provides easy data collection for customer validation reports while monitoring process parameters.



Want to streamline your application?

Contact TESCOM today and let us simplify your pressure, flow or measurement application. We have the experience and expertise you need!

WE ARE YOUR WORLDWIDE PARTNER IN PRECISION PRESSURE CONTROL

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