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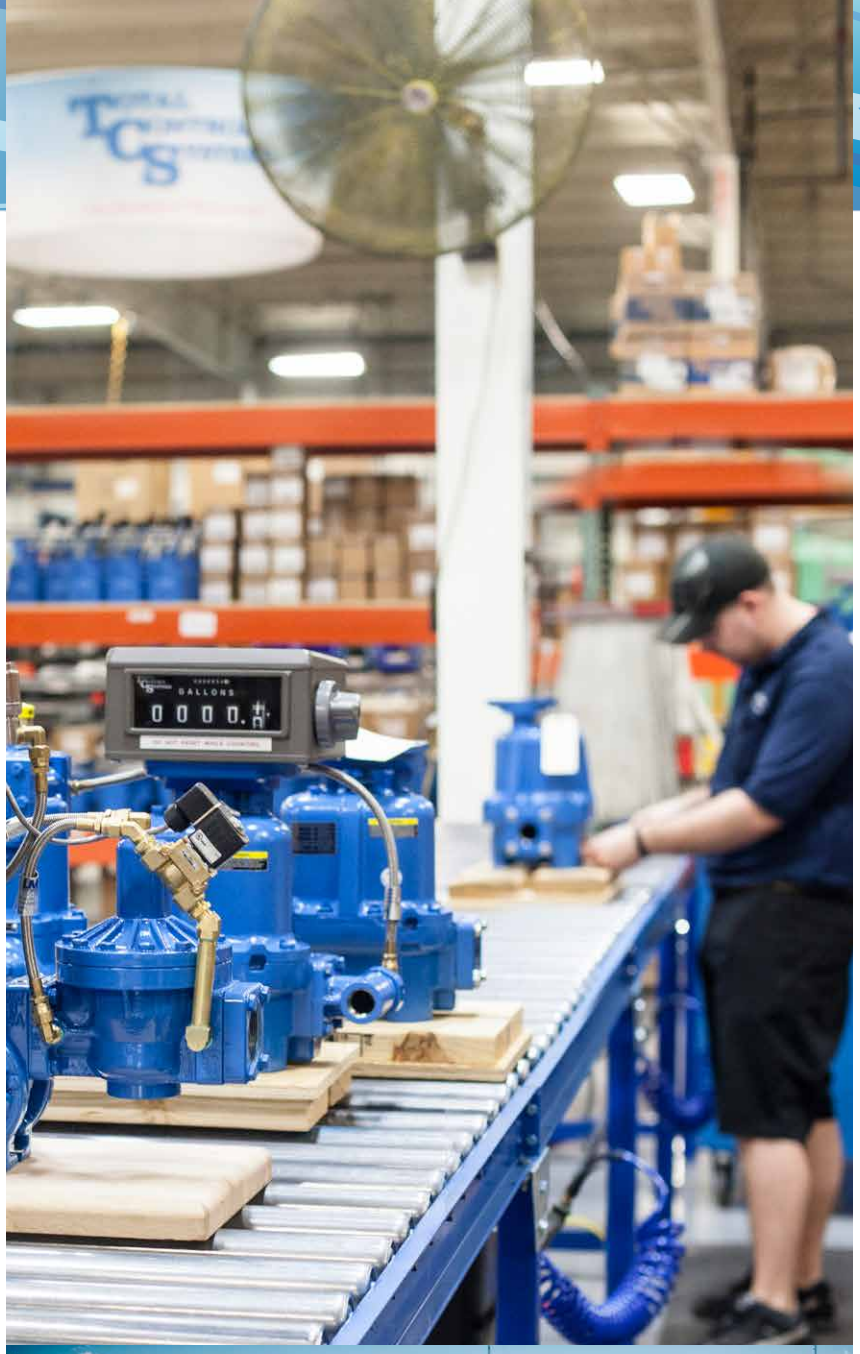
TOTAL CONTROL SYSTEMS™

The Standard of Measurement

A Manufacturer of Positive Displacement Flow Meters, Electronic Registration & Accessories



Since 1995, Total Control Systems (TCS) has been the industry leader in the design and manufacture of precision custody transfer flow meters and accessories. We specialize in crafting innovative solutions for the refined fuels, LPG, aviation, oil/lubes, fertilizer and agri-chemical, industrial chemical, marine, renewable fuels, and DEF markets. We're family-owned and operated, which means we build our business on relationships, not just profits. Partner with TCS and discover why we continue to lead the industry in providing liquid handling equipment.

Why Total Control Systems?

Becoming the market leader didn't happen overnight. Over the years, we have built a reputation of being the supplier of choice in each of our markets. How did we do this? Simply put, we put our customers first. When they speak, we listen. From the moment a product is imagined to beyond the day it is delivered, we are focused on providing the highest quality products and the best services at a fair price.

Doing Business is Easy with TCS

Conducting business with Total Control Systems is easy. We are dedicated to providing the right solution, on time, every time. And, we stand behind our products. If it isn't right, let us know. We'll make it right. TCS employs a solid team of individuals with a strong knowledge base behind our turn-key equipment packages and specialty systems. From the design to the support, TCS is poised to deliver the solutions you need.

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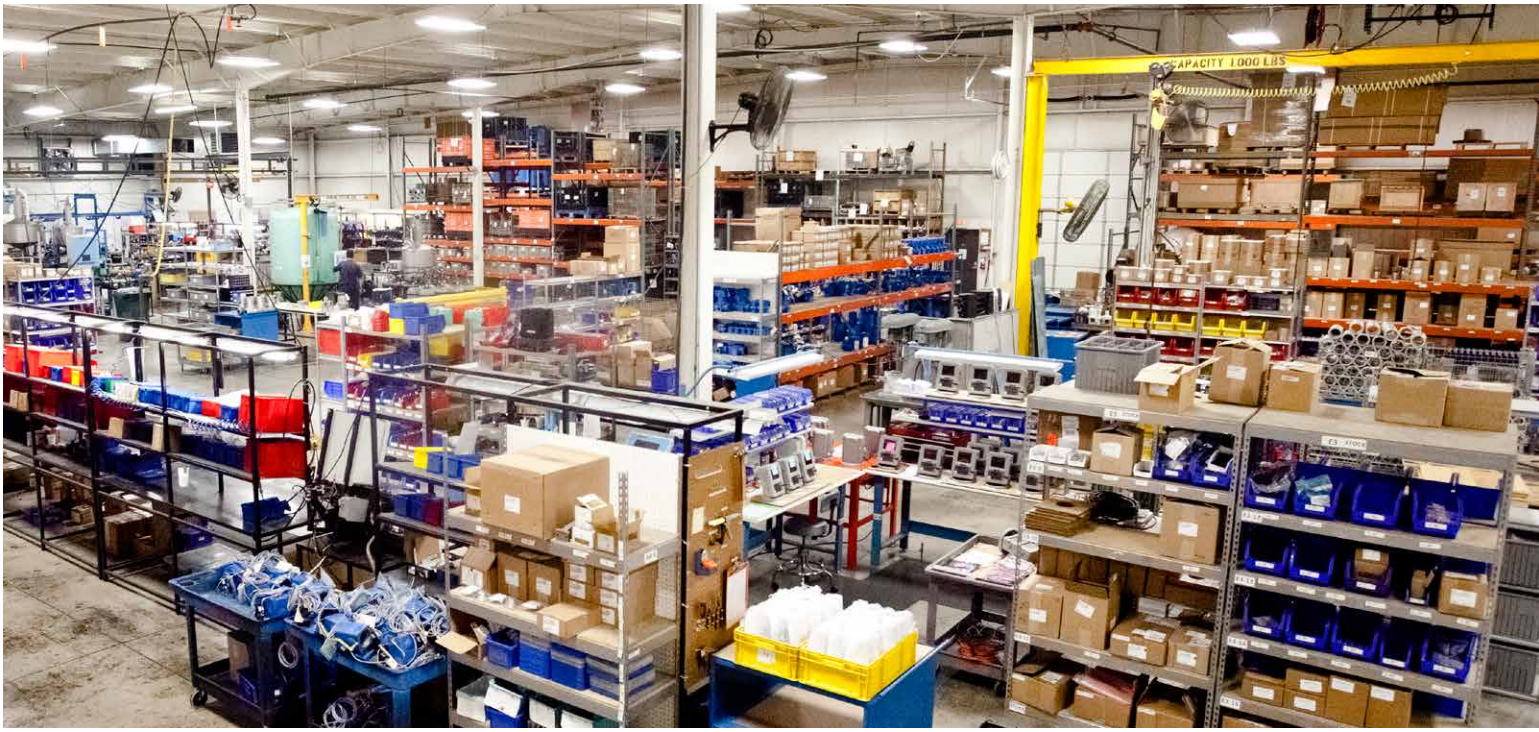
TCS Invests in Innovation

At Total Control Systems we believe in supporting our customers, not only today, but well into the future. That's why we have significant investments in R&D, facilities, and quality control. Meters are designed and created using sound engineering principles, automated test cells, and state-of-the-art equipment by a team with decades of hands-on experience. With over 100,000 ft^2 of facilities and a state-of-the-art computer numerically controlled (CNC) machining center, it's no wonder customers continually engage TCS to fulfill their liquid measurement needs.



TCS Delivers Quality

Each liquid has its own unique properties. At TCS we make it our business to understand each liquid and how to improve its measurement. In addition, we ensure each piece of equipment that leaves our building adheres to strict quality standards. We do so by employing quality managers tasked with proactively identifying and resolving quality issues. TCS is an ISO 9001 certified manufacturer that has a large resume of global weights and measures approvals as well as UL, ATEX, IECEX certifications on various products. That's why customers who rely on quality equipment trust TCS.

Products/Services

Total Control Systems specializes in providing both reliable and innovative liquid measurement and recording equipment that is Weights and Measures approved (NIST, OIML, NMI, MID, and SABS). Today, Total Control Systems can be found supporting companies both large and small across the globe.

682 Meter

Total Control Systems offers the world's only "true" positive displacement flow meter, known as the 682 piston meter. Due to its astounding accuracy, it was originally called the "Miracle Meter" when it was first designed in the 1930s by Tokheim Corporation. Since purchasing the rights to the meter in 1995, Total Control Systems has made significant enhancements to its design while maintaining its superior accuracy. The 682 meter is smaller and lighter in weight along with improved performance and reliability. In industries that operate at lower flow rates but require both high accuracy and reliability, there is no better meter than the TCS 682.

700 Meter

The TCS 700 is the flagship product of Total Control Systems. This positive displacement rotary flow meter boasts unique design features to improve accuracy and performance. The TCS 700 features tri-rotor design that improves accuracy by minimizing pressure loss. With no metal to metal contact within the measuring chamber, the TCS 700 avoids internal wear to ensure long-term accuracy and extend time between calibrations. It is available in a wide variety of metals and sizes from 1 ½" to 6" to support a wide range of industries and liquids. All TCS 700 meters are engineered and manufactured in-house. Thanks to Total Control System's reputation as being a trusted industry provider and the TCS 700's superior design, the meter is becoming the rotary flow meter of choice.

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Meter Accessories

Total Control Systems offers a complete line of accessories to support TCS flow meters.

VALVES

Total Control Systems offers a variety of valves including hydraulic preset, electronic preset, air differential check, in-line back check, and digital valves. These valves can be made in various materials and sizes to accommodate your specific application.

AIR & VAPOR ELIMINATORS

When air and vapor elimination is needed, TCS is there with the accessories you need. TCS electronic and mechanical air/vapor eliminators and strainers are designed to remove free air/vapor from both low and high volume applications. They can be made from aluminum, ductile iron, and stainless steel for your specific application.

PULSE TRANSMITTERS

TCS pulse transmitters allow you to send volume data to a remote display, register, computer, or fuel management system (PLC). The glandless pulse transmitter can provide single or dual channel output.

MISCELLANEOUS

In addition to its standard accessories, TCS offers a series of miscellaneous accessories such as process instrumentation, rate-of-flow indicators, RTD temperature probes, remote displays, clutch assemblies, insulation jackets, protective covers, and more!

TCS 3000 Register

Total Control Systems recognized a widening gap between existing electronic registration and emerging in-truck billing technologies. We responded with the TCS 3000, a fully integrated flow computer. This next generation register was designed not only to meet the needs of today's users, but also those of the future. Thanks to its flexible design and open software architecture, the TCS 3000 will continue to evolve and grow to meet tomorrow's challenges.

The TCS 3000 features a large easy-to-read color display and a backlit alpha-numeric keyboard. Along with optional wireless capabilities, cloud-based delivery tracking, and back-office integration this register is taking the industry by storm. Whether you require a simple "Pump and Print" delivery or an advanced measurement solution, the TCS 3000 will provide total control of your product inventory.

TCS HUB

TCS developed the TCS HUB, a companion software to the TCS 3000 electronic register. As demand for the TCS 3000 electronic register has grown, we realized that not everyone wanted or could justify the expense of in-truck solutions. This unique software solution allows the home office to communicate directly to the register to collect driver tickets in real-time (using a cellular connection) or at the end of day (using a radio frequency connection) and then export that information to the back office software. With additional GPS add-ons, dispatchers can even keep an eye on the location of their trucks. Thanks to the power and flexibility of the TCS HUB, fuel marketers and distributors and can close the information gap between their trucks and the home office. The TCS HUB is the first step towards full tank farm fuel management.

Applications/Industries

Refined Fuels

Whether delivering, storing, or blending gasoline, diesel, or other refined fuels, Total Control Systems is your metering partner. TCS meters offer the highest quality with superior performance in custody transfer applications. We also offer a full line of accessories including air eliminators, strainers, control valves, and pulse transmitters to meet customer requirements. Whether you operate bulk plants, delivery vehicles, refineries, pipelines, or rail cars TCS meters are engineered to provide you with superior performance, accuracy, and reliability.

LPG

Total Control Systems is a trusted provider of LPG metering solutions to propane dealers, bulk plants, bobtail, and AutoGas dispensing systems. Our piston and rotary style flow meter solutions are available with a long list of accessories including temperature probes, pulse transmitters, vapor eliminators, strainers, control valves, and more. Thanks to the reliability of both our meters and our company, more and more people are turning to TCS to fulfill their LPG metering needs.

Aviation

For years, TCS has been providing piston and rotary meters for metering aviation fuels in delivery vehicles, hydrant carts, fixed into-plane dispensers, storage systems, blending units, and more. TCS's meters can be enhanced with our full line of accessories. Since the introduction of the TCS 3000 and the TCSHUB, the aviation industry has enthusiastically adopted these innovative products and dramatically improved the way they measure and track fuel deliveries.

Oil & Lubes

For those involved in the delivery and/or repackaging of motor oils, and lubricants, Total Control Systems offers precise, reliable metering solutions. Like all TCS meters, a wide variety of accessories including strainers, control valves, and pulse transmitters can be added to meet additional requirements. Oil and Lube manufacturers and distributors rely on TCS for long-term, reliable measurement.

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Marine

Total Control Systems offers ABS-approved piston & rotary positive displacement meters for a variety of applications including off-shore oil rigs, shipping vessels, dock fueling dispensers and cabinets, workboat main engines and boiler feeds, power generation, and helicopter fueling. We also offer a full line of accessories including air eliminators, strainers, control valves, and pulse transmitters to meet customer requirements. TCS meters are found both on and off shore around the globe serving the marine industry.

Mining & Construction

Total Control Systems serves the metering needs of the mining and construction industries. Our meters can be found in mobile or stationary fuel storage systems for mining and construction applications. TCS meters are metering fuels, oils lubricants, DEF/AdBlue, and other liquids in a wide range of climates around the world.

Fertilizers & Chemicals

Total Control Systems is the industry expert in agri-chemical handling. Whether you are blending, storing, delivering, or dispensing fertilizers, herbicides, insecticides, fungicides, liquid feeds, crop oils, or phosphoric acid, TCS has a metering solution to meet your needs.

Industrial Chemicals

Total Control System's positive displacement meters can be found around the globe providing precise measurement of liquids such as paints and coatings, pharmaceuticals, petrochemicals, printing, textiles, and more. We pride ourselves in understanding the characteristics of liquids and how to measure them ensuring long-term accuracy and reliability. Whether you need to blend, store, or deliver liquids, TCS is ready to help you get the measurements you need.

Renewable Fuels

Total Control Systems provides ethanol, methanol, and biodiesel manufacturers, blenders, distributors, and retailers a full line of positive displacement metering solutions. Whether you need a metering solution to deliver, store, dispense, or blend a renewable fuel, TCS is the meter manufacturer of choice.

AdBlue/Diesel Exhaust Fluid (DEF)

AdBlue/Diesel Exhaust Fluid (DEF) is a solution comprised of high purity urea and deionized water that is highly corrosive and can significantly shorten the accuracy and lifetime of a meter without proper handling. Thanks to TCS's experience of managing liquids, we constructed piston and rotary meters with materials that were able to withstand the challenges presented by AdBlue/DEF. Today, TCS meters can be found throughout the AdBlue/DEF industry in blending facilities, delivery vehicles, dispensers, intermediate bulk containers (IBC), and delivery skids.

Need a liquid metering solution?

Contact us today to experience Total Control System's world-class products and commitment to precision, accuracy, reliability, and customer service.

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Celebrating 25 Years

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