

TCS ON POINT

Additive Injection



The Standard of Measurement



www.TCSmeters.com



Fully* Automatic Additive Injection

Prevent Misfueling:

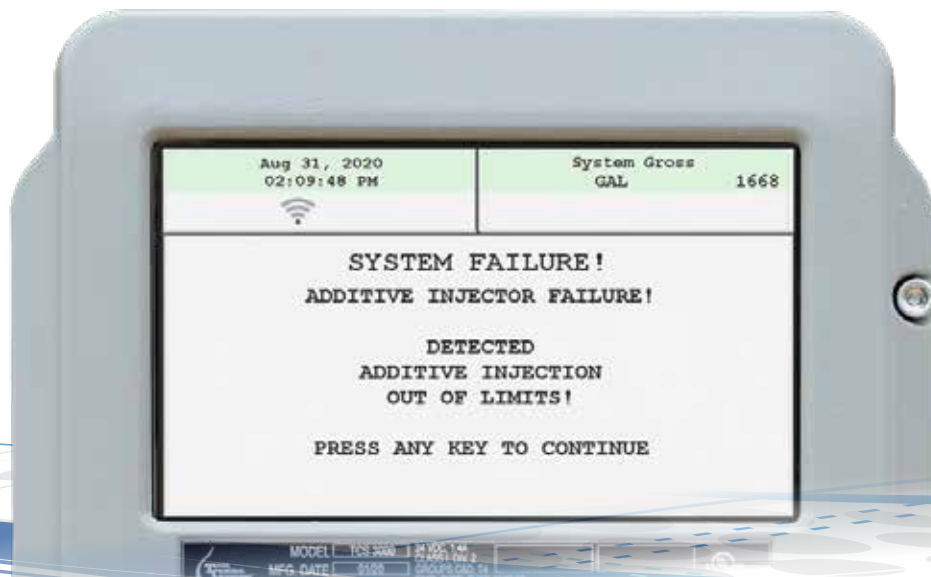
1. Identify Product with Additive
2. Authorize & Actuate Injection Pump Dosage
3. Auto Monitoring & Self Adjusting Additive Rate*
4. Automatic Shutdown if Additive Ratio is out of Tolerance Limit
5. Injected Additive Printed on Delivery Ticket
6. See Fuel Delivery Records with Additive Online using TCS HUB

Configurable:

1. Minimum PPMv Setting (Scalable)
2. Maximum PPMv Setting (Scalable)
3. Volume Delay Startup Setting (Scalable)

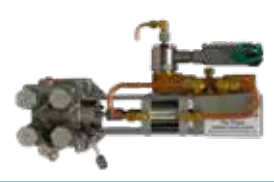
*Pneumatic, 12V and 24V options only

The TCS 3000 Electronic Register automatically warns operators and stops deliveries when an integrated additive injection meter detects that additive levels are outside the acceptable range.



Ensure Consistent Additive Injection Levels

TCS offers several methods to achieve accurate, precise additive injection. Each system offers its merits in terms of ease of installation into existing equipment, amount of control, and reporting capabilities.



	Pneumatic Piston	12V Electronic Gear	24V Electronic Gear Pump & Meter	External Pump/Meter
Single or Dual	Both	Both	Both	Single
Automatic Self Adjusting	Yes	Yes	Yes	No
Automatic Shutdown	Yes	Yes	Yes	Yes
Air-Driven	Yes	No	No	N/A
Low Amp	N/A	less than 8 amp at maximum load	less than 4 amp at maximum load	N/A
Certifications	cUL rated Class 1, Division 1; ATEX Zone 1 Approved	cUL rated Class 1, Division 1	ATEX EEx II 3 G2 D22 rating	N/A
Accuracy	+/- 5 PPM accuracy* at rates up to 2750 mLPM	+/- 5 PPM accuracy* at rates up to 1200 mLPM	+/- 5 PPM accuracy* at rates up to 1200 mLPM	N/A
Easy Install	Yes	Yes	Yes	Uses existing equipment
TCS HUB Integrated	Yes	Yes	Yes	Yes

*on delivered volumes of 300 callon capacities



Send your fuel delivery records with additive online to the TCS HUB for centralized reporting and equipment monitoring.



Check out our other solutions online at
[www.TCSmeters.com!](http://www.TCSmeters.com)

Meter Accessories



Electronic Registration

TCS 3000 electronic register is a fully integrated flow computer that will control all delivery operations. The modular design and open software architecture provide you with a tailored system that is expandable for future needs.



TCS HUB Delivery Software

TCS HUB is a SQL-based software designed to capture truck delivery information wirelessly to be electronically collected at locations and/or the home office. The TCS HUB software supports both line of sight wireless modems and/or cellular modems for real-time delivery tracking.



Pulse Transmission

The DMP pulse transmitters provide accurate signals for remote indication, totalizers and data monitoring systems by transferring the mechanical rotation of the flow meter into an electronic pulse. This pulse can be used by the TCS 3000 or a flow computer of your choice.



Air/Vapor Elimination

Mechanical and electronic air eliminators are devices designed to extract free or accumulated volumes of air or vapor from a liquid dispensing system to achieve accurate measurement results.



Control Valves

Mechanical, pneumatic and electronic actuated piston and diaphragm control valves designed to meet the variety of needs in the fluid process industry. Such valves include preset flow control valves, air differential control valves, pressure relief and safety valves.



Mechanical Registration

Mechanical 5 wheel register V/R 7887 or 6 wheel register V/R 7886 with optional preset, ticket printer, swivel, micro switch and register mounted pulser.



Miscellaneous

Miscellaneous product accessories were developed to increase functionality of your metering solution. Such items as flow indication, RTD temperature probes, clutch assemblies, insulation jackets, protective covers and various flange connections.

Authorized Distributor



The Standard of Measurement

2515 Charleston Place
Fort Wayne, Indiana 46808
United States of America

www.TCSmeters.com
sales@tcsmeters.com
(260) 715-4500



Made in U.S.A.

© 2023 Total Control Systems
TCS 900