

Chem-Trend's SprayIQ™ System

THE CHALLENGE.

Release agents are often manually spray-applied with no measurement of the amount used. It is a struggle to maintain consistent application from operator to operator and shift to shift. To improve and control their process, customers need to know how much is applied, and if that is too little, too much, or just right. At Chem-Trend, engineers, sales, and IT experts teamed up to develop an application measuring device complete with valuable data visualization and analysis tools. SprayIQ™ equips customers with the features and data they need to optimize and control their release agent application process.

Features provided by SprayIQ™

- Spray volume
- Spray duration
- Target spray volume
- Flow rate
- Total spray volume
- Total spray cycles
- Alarms: lower alarm, lower warning, upper warning, upper alarm.

THE INNOVATION.

SprayIQ™ measures the amount of release agent applied with each spray cycle. The unit includes a gateway panel and a flow module with an audible alarm to notify operators of the amount applied. With its immediate feedback, this device provides the information customers need to control the application process. It can serve as a training tool to reduce waste, buildup, and cleaning time. Up to four flow modules can be connected to a single gateway, and additional panels can be daisy-chained to manage more spray guns.

Target application volumes can be set, with audible, visual, and email notifications delivered for under- or over-spray amounts. If desired, a maximum amount can be established and SprayIQ™ can limit the flow of release agent per spray cycle. Data from each spray cycle is viewable on the HMI on the plant floor and the SprayIQ™ website, Efficiency-Manager. Process data history, charts, and data analytics are available on the website, along with the ability to export data for further evaluation.

THE BENEFITS.

- Plug and play; easy to install
- Application data measured for each spray cycle
- Real-time feedback to the operator
- Historical data (nearly 500 cycles) available at the supervisor's fingertips on the HMI
- Spray cycle data available on the SprayIQ™ website, Efficiency-Manager
- Charts and analysis tools included
- Data export feature
- User-specified lower and upper level alarms with optional notifications
- Compatible with mobile devices

THE SPECIFICATIONS.

SUPPORTED PARAMETERS	
Fluids	Water-, Solvent-, and Oil-Based Fluids
Pipe/Tube Material	Metal, Plastic
Pipe Size	1/8" - 1/2" outside diameter (fits 3 mm - 12.7 mm)
Fluid Pressure	2 psi - 35 psi (14 kPa - 241 kPa)
Fluid Temperature	32°F - 140°F (0°C - 60°C) non-freezing
OPERATING FLOW RATES	
Minimum Flow Rate	1 mL/second (1/4" or 6 mm tubing)
Maximum Flow Rate	15 mL/second (1/4" or 6 mm tubing)
ELECTRICAL	100 - 240 VAC; 50/60 Hz
GATEWAY PANEL	
Dimensions (H x W x D)	15.5" H x 12.3" W x 6.2" D / 394 mm H x 313 mm W x 158 mm D
Weight	25.2 lbs / 11.5 kgs
COLLECTION PANEL	
Dimensions (H x W x D)	15.5" H x 12.3" W x 6.2" D / 394 mm H x 313 mm W x 158 mm D
Weight	24.8 lbs / 11.3 kgs
FLOW MODULE	
Dimensions (H x W x D)	13.5" H x 9.3" W x 4.9" D / 343 mm H x 235 mm W x 124 mm D
Weight	10.4 lbs / 4.5 kgs
DISTANCE BETWEEN GATEWAY OR COLLECTION PANEL AND FLOW MODULE PANEL	328' / 100 m maximum cable length

While the technical information and suggestions for use contained herein are believed to be accurate and reliable, nothing stated in this bulletin is to be taken as a warranty either expressed or implied.

To learn more about the SprayIQ™ System, contact your local Chem-Trend office.

CHEMTREND.COM/CONTACT



Just one more way Chem-Trend is innovating to make our customers more efficient, more productive, and more sustainable.