Automated Chemical Injection Systems

Enforcing the quality specifications of natural gas, crude oil, liquid petroleum gas and water precisely and efficiently

Whatever the culprit may be — H2S, CO2, O2, scale, water, paraffin, or hydrates — the Enforcer has you covered!

Proudly made in the USA
The **Enforcer** is a fully automated chemical injection system that *simplifies* complex chemical injection & corrosion monitoring anywhere in the world!

### The Challenge
- Internal corrosion
- H2S in natural gas
- H2S in crude
- H2S in water
- CO2 in natural gas
- O2 in natural gas
- Foam in natural gas
- Chlorides in natural gas
- Hydrates in natural gas
- Water in natural gas
- Paraffin in crude oil
- Water in crude oil
- Oil in water
- Scale in water
- Biological Elements

### The Solution
- Corrosion inhibitors
- H2S scavenger
- H2S scavenger
- H2S scavenger
- CO2 scavenger
- O2 scavenger
- De-foamers
- Water
- Methanol
- Glycol
- Paraffin inhibitor
- De-emulsifiers
- De-oilers
- Scale inhibitors
- Biocide

### Features and Capabilities
- 120 VAC, Solar and/or Pneumatic
- PLC operation with local and remote control via modbus and bluetooth
- Radio and cellular communications
- Measurement of contaminants and/or conditions
- Diagnostics via tank level controls and pump output verification
- Alarms for low chemical and pump failure
- Emergency back-up pump activation
- Date/time log for measurements and events (password protected)
- Lightweight skid mounted design

### Options
- Web based control site
- Gas and liquid measurement
- Multiple chemical injection from one skid
- Real time corrosion monitoring

---

Integrity Measurement & Control
P.O. Box 1889, Sugar Land, Texas 77487
phone: 281.277.0058 | fax: 281.277.0086
imc@integrity-measure.com | www.integrity-measure.com
Create Your Perfect Solution

With the optional website management software from Alert Systems you can monitor and adjust injection rate based on real time data.

Online Controls

- Injection rate
- Tank levels
- Process conditions
- Diagnostics
- Contamination level

Unparalleled Versatility

The Enforcer targets the culprits—H2S, CO2, O2, scale, water, paraffin, or hydrates—and automatically injects the correct dosage of chemical to neutralize the problem.

Ideal for Remote Applications

The Enforcer incorporates the best technologies available for a trouble free and reliable watchdog 24 hours a day, 7 days a week!

Monitor » Resolve » Maintain

Internal Corrosion • H2S • CO2 • O2 • Foam • Chlorides

Water • Hydrates • Paraffin • Water • Oil • Scale
Request for Quote

Company: ____________________________________________ Date: ________________

Contact Name: ________________________________ Phone: __________________________

Email: ____________________________________________

Bill to Address: ____________________________________________

______________________________

Installation location (for climatic conditions): ____________________________________________

Process stream: Natural Gas _____ Crude Oil _____ Water _____ Other _____

Max Pressure: __________ Max Temperature: __________ Max Flow Rate: __________

Contaminant and/or condition to be measured (ex. Formation of Hydrates, H2S, CO2) ___________________

Current chemical class/category used (ex. H2S Scavenger) ___________________

Strength Used (Concentration): __________ Current Injection rate: Gal/Day __________

Power required: 120VAC _____ 12/24VDC _____ Solar _____

*Solar systems are sized according to the total power draw for each system and the maximum days of autonomy

Electrical area classification: Class 1, Div. 2 _____ Class 1, Div. 1 _____

Pneumatic back-up pump required: Yes _____ No _____

Use existing pump: Yes _____ No _____ Make and model ____________________________________________

Actuation source: Natural Gas _____ Instrument Air _____

Method of communication: Radio _____ Pushup Antenna Required _____ Cell Modem _____ Land Line _____

Make and model of communication device: ____________________________________________

Existing RTU: Yes_____ No_____ (Describe) ____________________________________________

Will modbus be required: Yes_____ No_____

Bulk tanks with level control: Yes _____ No _____ Volume (gallons) __________

Existing: Yes _____ No _____ Bulkhead Fitting Size __________

*Strapping info required from manufacturer.

Number of monitoring/injection locations: _____ Distance from Enforcer: Min __________ Max __________

Pipeline connection size (for chemical injection/corrosion monitoring/process sampling)
(ex. 2" NPT or 1" ANSI 300# RF) ____________________________________________

Top of pipe access: Yes _____ No _____

Pipeline Diameter _________ Riser Height __________

Options:

Bluetooth: Yes _____ No _____

Website management: Yes _____ No _____

Number of users ___________