

Hughes Gas Measurement, Inc.
 "A just weight and balance..."
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Automation Solutions -
 101 Uses

Inside this Issue

- 1 Monitor virtually any piece of equipment anywhere and anytime.
- 2 **Pipeline:** Pressures, Temperatures, Rectifier Voltages
- 3 **Security:** Gate Status, Motion Sensors
- 4 **Railroad Crossings:** Crossings and Guards, Track Switches and Signals, Generators, Lubricators and Heaters
- 5 **Water and Waste Water:** Lift Stations, Pumps, Water Levels, Tower Pressures, Lagoon Levels
- 6 **Electric Utility:** Transformer Temperature, Power Outages, Substation and Vacuum Switches
- 7 **Security and Building Management:** Door Status, Boilers, Hot Water Heaters, Entry Access and Storage Tanks
- 8 **Chemical:** Raw Tank Levels, Flow Meter Readings, Pressure and Temperature
- 9 **Heating and Refrigeration Units,** Cryogenic Plants
- 10 **Agricultural:** Irrigation, Feed Tank Levels, Waste Lagoon Levels, Mobile Equipment

Remote Monitoring

Automation and Controls, Web Hosting, Wireless Alarm Monitoring, Flow Computers, PLCs

HGMI installs and maintains wireless and land-line alarm systems for compressors, tank levels, cathodic protection, metering facilities, electrical, water, other industrial equipment, and even mobile equipment.

Alarm monitoring for H2S, Oxygen and almost any other situation can be accomplished by connecting various types of switches and sensors to the alarm units. Alarm messages can be sent almost anywhere using faxes, telephones, pagers and e-mail.



HGMI is reseller of Metretek, American Innovations Metering-Bullhorn, Telemetric and PMC-Global products.



Monitor tank liquid levels using level switches or analog sensors.



Monitor compressor operations by connecting analog temperature and pressure transmitters or switches, liquid level switches or transmitters etc. Actually control compressor functions over the internet.

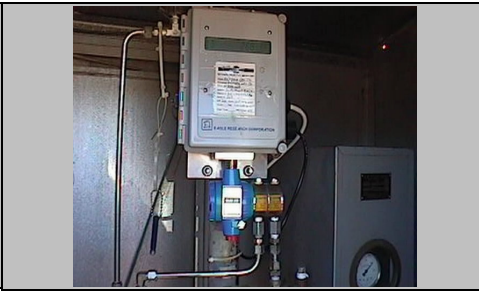


Monitor dehydration operations by connecting to analog temperature transmitter or temperature switch gauge and pump switch.

Key Benefits

- ✓ Immediate notification of operation problems.
- ✓ Reduce incidents of contract non-compliance and lost sales.
- ✓ Reduce trips to site, increased employee productivity.
- ✓ Prevent dangerous spills, pollution and damage to equipment.

HGMI services most EFM models and is a sales representative of [Eagle Research Corporation](#), Manufacturer of Industrial Computers including the Low-Cost XARTU/1 Orifice Terminal Unit.



Below: An example of a web based monitoring site indicating the status of various switches (Digital Inputs), and real-time spot temperature reading (Analog Inputs). Digital Outputs can be used to turn equipment off and on. Alarm notification can be sent multiple directions at once. One unit can relay instructions to another unit via the web.

Digital Inputs

| # | Description | Status | Momentary | Date/Time |
|---|--------------------------|---------|-----------|-----------------------|
| 1 | Compressor | On Line | Reported | 2/14/2002 11:42:27 AM |
| 2 | Heater Temp | Okay | None | 2/14/2002 11:42:27 AM |
| 3 | Ethylene Glycol Pressure | Okay | None | 2/14/2002 11:42:27 AM |
| 4 | TEG Pressure | Okay | None | 2/14/2002 11:42:27 AM |

Digital Outputs

| # | Description | Status | Momentary | Date/Time |
|---|-------------|--------|-----------|-----------------------|
| 1 | Output1 | Off | None | 2/14/2002 11:42:27 AM |
| 2 | Output2 | Off | None | 2/14/2002 11:42:27 AM |

Analog Inputs

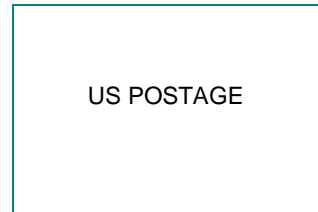
| # | Description | Current Value | Date/Time |
|---|---------------------|--------------------------|-----------------------|
| 1 | Cold Separator Temp | Current 48 Min 45 Max 53 | 2/14/2002 10:23:59 AM |
| 2 | Input2 | Current -84 | 2/13/2002 8:12:26 PM |

Voltage and Outage

| Description | Status | Date/Time |
|---------------|-----------------------------|-----------------------|
| AC Voltage | Current 124 Min 124 Max 125 | 2/14/2002 11:42:27 AM |
| Power Outages | None | 2/14/2002 11:42:27 AM |

[Edit Labels](#) | [Set Output](#) | [Request Status](#) | [Device History](#) | [Edit Device Data](#) | [Event Based Actions](#) | [Refresh](#)

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ADDRESS CORRECTION REQUESTED

To: