# Hi-Tech Controller

*Remote Terminal Unit*

The Hi-Tech Controller is a Class1 Div2, highly advanced gas meter RTU *(remote terminal unit).* This fourth generation product has been developed and refined through 12+ years of field testing in Northern Michigan. The Hi-Tech Controller is a rugged product designed for remote natural gas wells with no AC power. The Hi-Tech Controller is designed to operate under very harsh conditions, and provide remote monitoring of distant wells.

The Hi-Tech Controller has all the features needed to measure gas production and control gas lift injection systems in one package.

Communication is the product's strongest asset. A Patented communication method that uses the Internet and non-licensed radio to get data back to a secure web server is a very powerful option (SSIPac) available for the Hi-Tech Controller.

With the SSIPac option, Internet access and a password is all that is needed to retrieve the Hi-Tech's data remotely.

## Benefits:

- Increased gas production.
- Continuous monitoring.
- Accuracy.
- More efficient use of field operations.
- Facilitates preventive maintenance.
- Provides the information needed for "top down" management of wells.
- Tracks well production trends.
- Provides valuable early feedback during new field development and drilling.

## Electrical
Input power 6-35 VDC.
Current draw 45 mA continuous @12 VDC.
*(350 mA during radio TX)*
*(optional)*10W Solar power pack available for remote areas.
220 Amp hour battery system.
4 I/O high current (2Amp at 6V).
4 onboard analog inputs available (0-5 VDC or 4-20 mA).
2 Serial ports (1 TTL Level).

## Physical
Enclosure: 10"x 8" x 4".
Weight: approximately 5.5 lbs.
Temperature rated to −40°F (−40°C).
Class 1, Div 2 rated.
NEMA 4x weatherproof enclosure.
4x4 Keypad; 128 x 64 dot matrix display.
(optional) 2" and 3 1/2" mounting bracket.
(optional) 6V pulsing solenoid valve.

## Processor Memory
PIC 18F8720 MPU, main processor.
128Kb flash standard memory; expandable to 2MB.
35 days of hourly and daily records stored onboard.

## Gas Calculations
AGA3 w/AGA8 super compressibility.
V-Cone w/AGA8 super compressibility.

## Communication
RS232 Serial (3-wire).
RS485 Bus (2-wire half-duplex).
Spread Spectrum Radio.
IP Compatible.

### SSIPac

1370 Milbocker Rd.
Gaylord MI 49735
888-732-8988
www.silversmithinc.com

Doc # 081020111  Rev 1

silversmith™