

# EMRC Gas Flow Monitoring System

## Control Panel



## The EMRC System Includes:

- Probe
- Umbilical (100' Standard)
- Sensor Cabinet
- Manual

## Pitot & Umbilical



## Specifications:

- Approximate Shipping Weight: 300 lbs
- Shipping Dimensions: 1 skid 36" X 30" X 13" (Transducer), 1 box 55" X 8" X 8" (Pitot)
- Probe Material: 3/8" diameter stainless steel tubing
- Probe Length: 57"
- Temperature Limit Probe: ~2000°F (melting point of probe material)
- Flange Type: 3" 150 lb
- Temperature Limit Control Consol: 30°F to 120°F (Stable temperature required for pressure transducers)
- Record Outputs: 4-20 ma & 1-5V
- Power Requirements: 115v, 60hz
- Transducer Range (standard): 0-2" H<sub>2</sub>O (others available upon request)
- Sensitivity: (may vary w/other transducers): ~2fps
- Response Time: ~1-2 to 100% of final reading
- Linearity: ~+/-2% of full scale
- Repeatability: <1%

**Clean Air Engineering**  
500 W. Wood Street  
Palatine, IL 60067  
(800) 553-5511  
(847) 934-8668  
Fax: (847) 934-8260  
[www.cleanair.com](http://www.cleanair.com)



# EMRC Gas Flow Monitoring System

- Zero Drift ~2% of full scale
- Span Drift: ~2% of full scale
- Accuracy: ~2% of full scale
- Temperature Range: 0-500°F

## Rental/Application Notes:

1. Designed for EPA Method 2 to determine the stack velocity and volumetric flow rate using a type S pitot tube.
2. This system includes an in-situ sensor (type S pitot), signal conditioning module, differential transducer, thermocouple transmitter, zero and span pots, recorder outputs, and built in dynamic calibration module.
3. This system includes the back-purge option, which allows for use in high particulate locations for extended periods of time.
4. The system must stay in zero for at least 30 seconds after purging high or low pitot lines. Care must be taken when doing a manual purge as the lines hold a residual pressure for a short time. On installation, do not connect purge air until you are sure the sequence allows the required 30 second delay.
5. Due to the large size of this unit ground shipping is required. Please call for rental at least one week in advance.
6. Specify the flow range so that the correct pressure transducer can be supplied.
7. The cabinet needs to be mounted in an upright position.
8. Due to potential drifting of the pressure transducers it is recommended that this unit be kept in a temperature controlled environment.
9. When renting, equipment must be returned in its original packaging.

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