

Welcome to Issue 12 of the PSI NEWS

This issue is dedicated to:

## Gas Mixing System GMS 150



### Features:

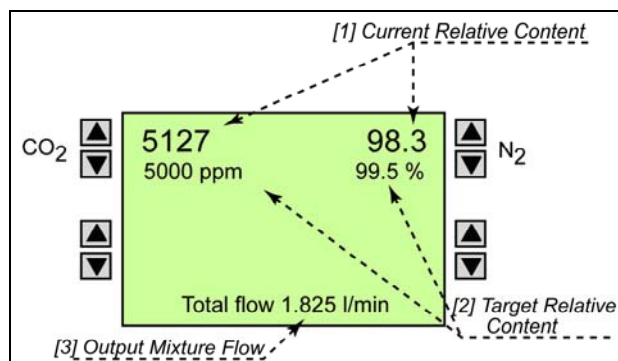
- Precise mixing of up to 4 different gases
- Stable flow rate control
- Flow rate from milliliters to liters
- Thorough gas mixture homogenization
- Simple to operate
- Intuitive use via the device front panel
- Simple to install.

### Application:

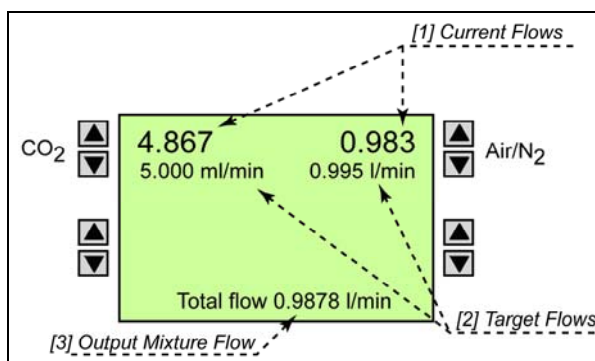
- Precision gas mixing
- Homogenization of gas mixtures
- Stand-alone device
- Supplying other PSI instruments, e.g., Photobioreactors, FytoScopes.

## Gas Mixture Setting:

- Absolute flow of individual gasses
- Relative composition of the gas mixture.



Display with absolute flow units.



Display with relative gas content units.

## Technical Specification:

### Measuring Principle:

Thermal mass flow measurement

### Accuracy (Incl. Linearity):

±0,5% Rd plus ±0,1% FS (±1% FS for ranges 3...5 ml<sub>n</sub>/min; ±2% FS for ranges < 3 ml<sub>n</sub>/min)

### Turndown:

1:187

### Repeatability:

< 0,2% Rd

### Control Stability:

< ±0,1% FS (typical for 1 l<sub>n</sub>/min N<sub>2</sub>)

### Settling Time:

1...2 seconds

### Warm-Up Time:

30 min for optimum accuracy, 2 min for accuracy ± 2% FS

### Temperature Sensitivity:

zero: < 0,05% FS/°C; span: < 0,05% FS/°C

### Pressure Sensitivity:

0,1%/bar typical N<sub>2</sub>

### Input Pressure:

Max 3 bar

### Operating Temperature:

15...50 °C

### Input / Output Connectors:

Parker Prestolok (6 mm)

### Dimensions & Weight:

37 x 28 x 15 cm; 7 kg