



# Fyrite<sup>®</sup> Gas Analyzers

Fast, accurate and easy to use instruments for measuring and analyzing carbon dioxide or oxygen. Fyrite Analyzers are available for either CO<sub>2</sub> or O<sub>2</sub> analysis, and each model is produced in three scale ranges.

All six instruments are similar in appearance and size, but differ in important construction details, as well as in the absorbing fluids.

Each model, therefore, is suitable only for the particular gas analysis or scale range for which it has been manufactured. Accuracy is within  $\pm 1/2\%$  CO<sub>2</sub> or O<sub>2</sub>.



## Operation

Fyrite absorbing fluid is selective in the chemical absorption of carbon dioxide or oxygen, respectively. Therefore, the Fyrite's accuracy, which is well within the range required for industrial and professional applications, does not depend upon complicated sequential test procedures. In addition, Fyrite readings are unaffected by the presence of most background gases in the sample.

The number of tests possible with one fluid charge depends on the concentration of samples being tested. At midpoint scale reading the CO<sub>2</sub> fluid is good for approximately 300 gas samples and the O<sub>2</sub> fluid for 100 tests. The need to replace fluid can be easily determined with a simple test, and replacement is an easy procedure. These test procedures, as well as other good information, are provided in the Fyrite manual 11-9026.

## Features

Fyrite Indicators have a broad range; they may be exposed to ambient temperatures from -30° to 150°F, and gases up to 850°F may be tested with standard aspirator sampling equipment (special sampling equipment for higher gas temperatures or dry gases is available). Order Fyrite Instruction Manual 11-9026. For temperatures above 1400°F, a ceramic sampling tube (Bacharach Part # 11-0164) is available.

## Applications

- 0-7.6% CO<sub>2</sub> – CO<sub>2</sub> tests of controlled atmospheres in fruit, vegetable, meat storage rooms, and incubator monitoring.
- 0-7.6% O<sub>2</sub> – Oxygen determination in flammable gases; oxygen tests to check inertness of atmosphere in silos, fuel tanks, etc.
- 0-20% CO<sub>2</sub> – Flue gas combustion tests; CO<sub>2</sub> tests of heat treating atmospheres.
- 0-21% O<sub>2</sub> – Flue gas combustion tests, oxygen deficiency test. Checking oxygen concentrations in hydrogen cooled generators and oil sealed inert gas transformers.
- 0-60% CO<sub>2</sub> – Checking CO<sub>2</sub> in inert gas blankets in tankers and barges carrying gasoline and other combustibles; CO<sub>2</sub> tests on lime kilns; checking CO<sub>2</sub> in sewage plant digesters.
- 0-60% O<sub>2</sub> – Oxygen test in connection with oxygen and gas anesthesiology.

*Note: United States and Foreign Postal Regulations prohibit Fyrite fluid, in or out of any unit, from being shipped parcel post.*

[Bacharach 10 5046 Fyrite Classic Gas Analyzers](#)

[Bacharach 10 5011 Fyrite Classic Gas Analyzers](#)

[Bacharach 10 5054 Fyrite Classic Gas Analyzers](#)

[Bacharach 10 5032 Fyrite Classic Gas Analyzers](#)

[Bacharach 10 5053 Fyrite Classic Gas Analyzers](#)

[Bacharach 10 5020 Fyrite Classic Gas Analyzers](#)

[Bacharach 10 5090 Fyrite Classic Gas Analyzers](#)

[Bacharach 10 5111 Fyrite Classic Gas Analyzers](#)



**Single Kits** - Single Kits contain either a Fyrite CO<sub>2</sub> or a Fyrite O<sub>2</sub> Indicator, Sampling Assembly and a carrying case.

**Duplex Kits** - Special Fyrite Kits containing various combinations of Oxygen and Carbon Dioxide Indicators, Sampling Assembly and a carrying case.

**Repair Kits** - One bottle of Fyrite fluid, valve plunger gasket, top gasket, screws, diaphragm, and envelope of filtering material.

**Refill Kits** - Two bottles of Fyrite fluid, top gasket, screws, and envelope of filtering material.

| USA                                |             |         |                    |
|------------------------------------|-------------|---------|--------------------|
| COMPLETE KIT ITEM NO. <sup>1</sup> | SCALE RANGE | FYRITE  | ASPIRATOR ASSEMBLY |
| <b>CO<sub>2</sub> Testing</b>      |             |         |                    |
| 10-5053                            | 0-7.6%      | 11-7042 | 11-7039            |
| 10-5000 <sup>2</sup>               | 0-20%       | 11-7032 | 11-7029            |
| 10-5032                            | 0-60%       | 11-7034 | 11-7029            |
| <b>O<sub>2</sub> Testing</b>       |             |         |                    |
| 10-5054                            | 0-7.6%      | 11-7044 | 11-7039            |
| 10-5011                            | 0-21%       | 11-7036 | 11-7029            |
| 10-5046                            | 0-60%       | 11-7038 | 11-7029            |

| FYRITE FLUID*         |        |                        |
|-----------------------|--------|------------------------|
| GAS TYPE              | RANGE  | ITEM NO. 3 BOTTLE CTN. |
| <b>Carbon Dioxide</b> |        |                        |
|                       | 0-7.6% | 10-5100 (11-0053)      |
|                       | 0-20%  | 10-5057 (11-0057)      |
|                       | 0-60%  | 10-5057 (11-0057)      |
| <b>Oxygen</b>         |        |                        |
|                       | 0-7.6% | 10-5103 (11-0059)      |
|                       | 0-21%  | 10-5060 (11-0169)      |
|                       | 0-60%  | 10-5060 (11-0169)      |

| EXPORT                             |             |              |                    |
|------------------------------------|-------------|--------------|--------------------|
| COMPLETE KIT ITEM NO. <sup>3</sup> | SCALE RANGE | FYRITE (DRY) | ASPIRATOR ASSEMBLY |
| <b>CO<sub>2</sub> Testing</b>      |             |              |                    |
| 10-5083                            | 0-7.6%      | 11-7041      | 11-7039            |
| 10-5001                            | 0-20%       | 11-7031      | 11-7029            |
| 10-5033                            | 0-60%       | 11-7033      | 11-7029            |
| <b>O<sub>2</sub> Testing</b>       |             |              |                    |
| 10-5084                            | 0-7.6%      | 11-7043      | 11-7039            |
| 10-5012                            | 0-21%       | 11-7035      | 11-7029            |
| 10-5042                            | 0-60%       | 11-7037      | 11-7029            |

| REPAIR KITS           |        |          |
|-----------------------|--------|----------|
| GAS TYPE              | RANGE  | ITEM NO. |
| <b>Carbon Dioxide</b> |        |          |
|                       | 0-7.6% | 11-7053  |
|                       | 0-20%  | 11-7052  |
|                       | 0-60%  | 11-7052  |
| <b>Oxygen</b>         |        |          |
|                       | 0-7.6% | 11-7055  |
|                       | 0-21%  | 11-7054  |
|                       | 0-60%  | 11-7054  |

| DUPLIX KITS                        |                        |               |                   |
|------------------------------------|------------------------|---------------|-------------------|
| COMPLETE KIT ITEM NO. <sup>4</sup> | CO <sub>2</sub> FYRITE | OXYGEN FYRITE | ASSEMBLY ITEM NO. |
| 10-5020                            | 0-20%                  | 0-21%         | 11-7029           |
| 10-5021 <sup>4</sup>               | 0-20%                  | 0-21%         | 11-7029           |
| 10-5090 <sup>5,6</sup>             | 0-7.6%                 | 0-7.6%        | 11-7039           |
| 10-5106 <sup>5,6</sup>             | 0-7.6%                 | 0-21%         | 11-7039           |
| 10-5111 <sup>5,6</sup>             | 0-60%                  | 0-21%         | 11-7029           |

| REFILL KITS           |        |               |
|-----------------------|--------|---------------|
| GAS TYPE              | RANGE  | ITEM NO.      |
| <b>Carbon Dioxide</b> |        |               |
|                       | 0-7.6% | not available |
|                       | 0-20%  | 11-7047       |
|                       | 0-60%  | 11-7047       |
| <b>Oxygen</b>         |        |               |
|                       | 0-7.6% | not available |
|                       | 0-21%  | 11-7050       |
|                       | 0-60%  | 11-7050       |

<sup>1</sup>Domestic shipments only

<sup>2</sup>Also includes Fire Efficiency Finder

<sup>3</sup>Export use only. Kits shipped without fluid.

<sup>4</sup>Export only

<sup>5</sup>Special order only: check factory for price and availability

<sup>6</sup>No export equivalent. Order components separately

\*Note: Only genuine Bacharach Fyrite Fluid is to be used in your Fyrite Analyzer. Substitute fluids may cause the Fyrite to be inaccurate or inoperative. Numbers in parentheses are old part numbers for reference only and not to be used for ordering.