IMPROVES CERTAINTY OF SYSTEM READINESS

Digitally monitors cylinder contents 24/7

Proactively warns in the event of a leak or problem

A DIMES SOLUTION FOR INERT GAS & CO₂ AGENTS

INERT GAS

CO₂

IMPROVES PRODUCTIVITY

Easier/faster maintenance:

★ Interventions needed only when the system sends a warning signal
★ Visually verify cylinder contents at a glance with greater accuracy than pressure gauges
★ Eliminates need to periodically dismount / weigh cylinders to verify contents (CO₂ systems)
INERT GAS

**SINGLE CYLINDER**

<table>
<thead>
<tr>
<th>Sensor unit</th>
<th>Control box connector cable single cylinder</th>
<th>Control unit of your choice</th>
</tr>
</thead>
<tbody>
<tr>
<td>B04661100</td>
<td>029900088</td>
<td></td>
</tr>
</tbody>
</table>

**MULTIPLE CYLINDERS**

<table>
<thead>
<tr>
<th>End unit</th>
<th>Sensor unit 1</th>
<th>Sensor unit connector cable</th>
<th>Sensor unit 2</th>
<th>Control box connector cable multiple cylinders</th>
<th>Control unit of your choice</th>
</tr>
</thead>
<tbody>
<tr>
<td>024900425</td>
<td>B04661200</td>
<td>024900415</td>
<td>B04661200</td>
<td>024900416</td>
<td></td>
</tr>
</tbody>
</table>

**DIMES: HOW IT WORKS:**

The DIMES Sensor unit replaces the standard pressure gauge on the valve port (M10x1 connection).

Built-in sensors continually monitor cylinder pressure and ambient temperature.

An integrated processor calculates the exact cylinder contents using the algorithm of the known relationship between pressure and temperature for each specific inert gas mixtures: IG100, IG01, IG55 and IG 541.

The system can be programmed to send a warning alarm when the pressure drops below a level that you determine — such as in the event of a leak or when the system discharges.

**STANDARD PRESSURE GAUGES**

**DIMES SYSTEM**

DIMES replaces passive pressure gauges for more accurate and pro-active monitoring as well as secondary functionalities.
**CO₂**

**Single Cylinder**

![DIMES valve + control box connection cable](image)

**Multiple Cylinders**

![2 cylinder cable](image) ![3 cylinder cable](image) ![4 cylinder cable](image)

![DIMES valve + multiple cylinder connector cable + control box connection cable + end connector](image)

**HOW IT WORKS:**

The DIMES sensor units is integrated into a special valve with a linear electrode. This replaces the standard system valve.

The built-in sensors monitor ambient temperature and the capacitance differential of the gas density between two electrodes in the dip tube.

An integrated microchip calculates the exact cylinder contents based on the known densities of CO₂ gas at different ambient temperatures. You input the cylinder volume and 100% fill level during a simple one-time configuration when the cylinder is filled.

If the contents would ever fall below a pre-set level, such as in the event of a leak, a warning signal will sound via the control box. A warning signal is also sent when the system discharges.
MONITORING SOFTWARE AVAILABLE

Special software is available to easily configure and monitor the contents of the DIMES system. Calibrates and track the key parameters needed for the algorithm to calculate the exact extinguishing agent level.

Easy, Intuitive design

Runs on any laptop

Key inputs:
★ Cylinder Volume
★ Gas type
★ Pre-set warning level
A FULL LINE OF GAS CONTROL SOLUTIONS

COMPLETE SOLUTIONS FROM SOURCE TO PROCESS.

ROTAREX is helping engineers worldwide to get better gas results: from ultra high purity production and medical care facilities to industrial and LPG applications, as well as alternative energy vehicles, fire suppression, diving, aerospace, cryogenics, laboratory, petro-chemical and welding. ROTAREX applies over 90 years of know-how and experience to custom design, develop and manufacture the high performance valves, regulators and fittings to suit your needs, all in one hand. Discover the difference ROTAREX can make in your world.
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COMPLETE SOLUTIONS FROM SOURCE TO PROCESS.

ULTRA HIGH PURITY VALVES

PRESSURE REGULATORS

FIXED INSTALLATION

FIRE SYSTEMS

LPG TANK VALVES

& REGULATORS

LPG CYLINDER VALVES

& REGULATORS

DIGITAL MEASUREMENT

SYSTEMS

PLASTIC INJECTION MOULDING