



MSA Chemgard® Application

for manufacturer of large, flat television screens

APPLICATION: During the production process, TV screens pass through two long blackening furnaces on conveyor belts. Natural gas is burned and the hot combustion products are used to obtain the desired atmosphere in the furnaces. Carbon monoxide (CO) and carbon dioxide (CO₂) measurements are critical to controlling the process and controlling product quality. Not only are the CO and CO₂ levels of importance, but so are the ratios. Previously, the customer would periodically analyze each of four zones per furnace with a large portable analyzer.

SOLUTION: The customer purchased two 8-point Chemgard Monitors: one for 0-10% CO; the other for 0-100% CO₂ calibrated up to 20% (readings over 20% will never occur). Now, the customer is "continuously" monitoring all eight zones for both gases. The customer likes the feature that allows them to go into INFO, DATA and quickly write down the last readings on all eight points. Gathering such data previously took an hour and now takes 3 minutes. The customer plans to use the 4-20mA and 0-10V outputs to fully convert to automatic control.

Carbon Monoxide

Formula: CO

TLV: 25 ppm

Chemgard Detection Limit: 4 ppm

Carbon Dioxide

Formula: CO₂

TLV: 5000 ppm

Chemgard Detection Limit: 0.04 ppm

Note: This Bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



ID 07-2060-MC / Dec 2010
© MSA 2010 Printed in U.S.A.

Corporate Headquarters
P.O. Box 426, Pittsburgh, PA 15230 USA
Phone 412-967-3000
www.MSAnet.com

U.S. Customer Service Center
Phone 1-800-MSA-INST
Fax 1-800-967-0398

MSA Canada
Phone 1-800-MSA-INST
Fax 1-800-967-0398

MSA Mexico
Phone 01 800 672 7222
Fax 52 - 44 2227 3943

MSA International
Phone 412-967-3354
Fax 412-967-3451

Offices and representatives worldwide



MSA
The Safety Company