

# Abaco Systems Selected for New Long-Range Methane Detection System for the Oil and Gas Industry

*System yields faster analysis and repair of oil and gas operations to reduce the accidental leakage of methane*

HUNTSVILLE, AL, USA, December 16, 2021 /EINPresswire.com/ -- Abaco Systems announced an



Abaco's commitment to innovation is clearly evidenced in the use of our FMC104 and FMC108 for research into eye-safe, long-path laser systems and now long-distance gas detection systems."

*Pete Thompson, Vice President of Product Management for Abaco Systems*

award to supply FPGA cards into a basin-wide methane scanning and monitoring system. The system yields faster analysis and repair of oil and gas operations to reduce the accidental leakage of methane, which accounts for about 10% of US greenhouse gas (GHG) emissions. The initial win of \$350K has a large prospective upside through ongoing development.

The continuous monitoring system employs centralized eye-safe laser beams spanning regions measuring multiple square miles to quickly detect, locate, and size methane leaks in a dense infrastructure. What began in a university research lab later expanded into an ongoing commercial product that shifts the industry paradigm away from on-site time-intensive monitoring of oil wells and natural gas

production facilities. Instead of waiting weeks for data to be received and interpreted, action can be taken much faster, reducing emissions, and lowering costs. Abaco's expertise in RF and FPGA design, innovative space-saving heatsink design, and longstanding relationship with the academic institution led to the selection of the company's FMC104 and FMC108 FPGA mezzanine cards for this system.

Both the FMC104 four-channel FPGA mezzanine card and the FMC108 eight-channel FPGA mezzanine card are fully compliant with the VITA 57.1-2008 standard. These cards allow for flexible sampling frequency control, analog input gain, and offset correction through serial communication with a carrier card. Equipped with power supply and temperature monitoring, they offer several power-down modes to switch off unused functions. Used in this application as digitizers, these cards bring proven technologies capable of low-cost continuous monitoring for

fast methane leak detection and repair. Their inventive heat dissipation design allowed for a less constrained environment and decreased overall costs by eliminating the need for additional heatsinks.

Pete Thompson, vice president of product management for Abaco Systems, said, "Abaco's commitment to innovation is clearly evidenced in the design and ongoing use of our FMC104 and FMC108 for research into eye-safe, long-path laser systems and now long-distance gas detection systems. We are thrilled to be a part of research paving the way with groundbreaking technologies that change the future of emissions mitigation efforts."



The continuous monitoring system employs centralized eye-safe laser beams spanning regions measuring multiple square miles to quickly detect, locate, and size methane leaks in a dense infrastructure.

[More Information](#)

[Data Sheet FMC104](#)

[Data Sheet FMC108](#)

About Abaco Systems

Abaco Systems is a global leader in commercial open architecture computing and rugged embedded electronics. With more than 30 years of experience in aerospace & defense, industrial, energy, medical, communications and other critical sectors, Abaco's innovative solutions align with open standards to accelerate customer success.

Abaco Systems is a subsidiary of AMETEK, Inc., a leading global manufacturer of electronic instruments and electromechanical devices with 2020 sales of more than \$4.5 billion.

[www.abaco.com](http://www.abaco.com)

Rich Mintz

Abaco Systems | AMETEK

RICHARD.MINTZ@ABACO.COM

Visit us on social media:

[Facebook](#)

[Twitter](#)

[LinkedIn](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/558569691>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2021 IPD Group, Inc. All Right Reserved.