

Rosemount™ CT4215

Leak Detection System



Rosemount™ is the global leader of leak detection systems for the aerosol, food, and pharmaceutical industries. The Rosemount™ CT4215 is an in-line system that tests 100 percent of packages going through the production line for seal integrity. Our patented Quantum Cascade Laser (QCL) technology offers high speed detection of trace gases from defective packs and rejects them instantaneously without slowing down or disrupting the production line.

Features and benefits

- Measures up to 200 packs per minute, up to 20 times faster than the competition.
- 100 percent of products that pass through the production line are tested in real time.
- Fully automated detection and rejection of defective products without interfering with the production line.
- Small footprint, easy to install on new or retrofit onto existing production lines.
- Patented QCL technology detects leaks at a sensitivity of < 0.01 in. (0.3 mm).
- Low maintenance costs for the lifetime of the system.

Applications

Products	Packaging type	Gases
Meat, dairy, vegetables, bread, pasta, drinks, and more	Trays, pouches, bags, cans, and bottles	CO ₂ , CO, N ₂ O, and ethanol

Specifications

Please consult Rosemount™ if your requirements are outside the specifications listed below. Improved performance, other products, and material offerings may be available depending on the application.

Overview	
Product	CT4215
Application	In-line leak detection
IR source	Quantum Cascade Laser (QCL)
Measurement technique	IR absorption spectroscopy
Laser classification	Class I
Performance	
Sensitivity	< 0.01 in. (0.3 mm) diameter
Packs per minute	200
Pack dimension	Up to 9 in. (228.6 mm) width, height adjustable
Filled gases including	CO ₂ , N ₂ O, CO, ethanol
Environmental	
Temperature range	23 to 86 °F (-5 to 30 °C)
Humidity range	< 95%

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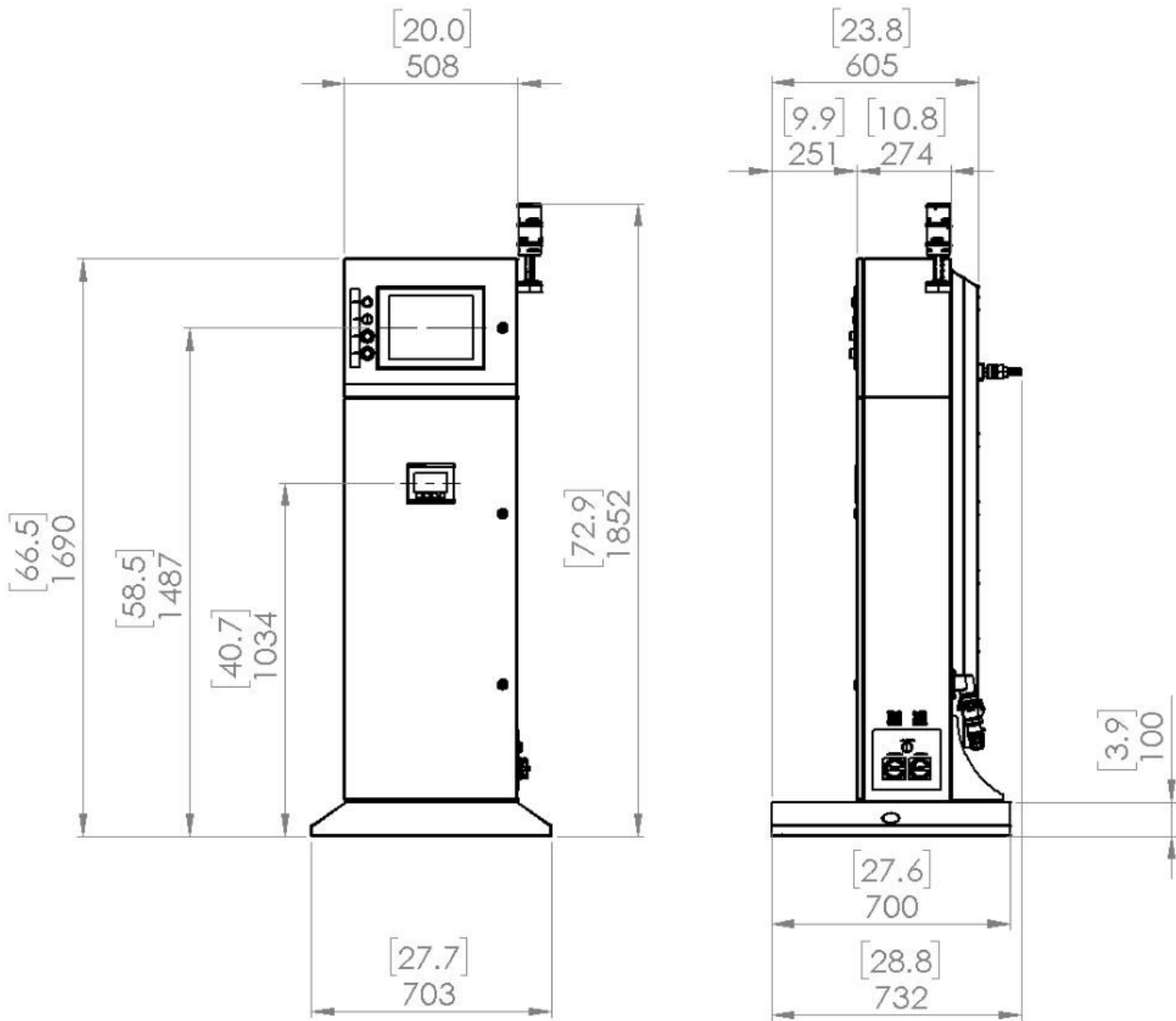
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Utilities	
Power supply	120 Vac 60 Hz / 240 Vac 50 Hz
Power consumption	600 W
Compressed air supply	Max. 25 L/min, 8 to 10 bar (115 to 145 psi)
Interface	
HMI	LCD display touch screen
PLC	Touch panel
Traffic light	Red, green
Control/software	
Rejection	Automated
Reporting	Production log
System health	Status lamp
Line stop	Configurable
Inputs/outputs	
Digital IN	Line status
Digital OUT	System health
Dimensions	
Size W x D x H	28 x 29 x 73 in. 703 x 732 x 1852 mm
Weight	285 lb. (129 kg)
Footprint on line	47 x 31 in. 1200 x 800 mm

Recommended installation

The drawings below represent the minimum recommended installation guidelines for the Rosemount™ CT4215 Leak Detection System. Please consult Rosemount™ customer services for detailed installation recommendations for your application.

Figure 1: Rosemount™ CT4215 Leak Detection System Dimensions



Dimensions are in millimeters with inches in brackets.

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