

Intrinsically Safe Products

Calibrators, thermometers and multimeters designed to intrinsic safety standards

What is "Intrinsically Safe"?

Intrinsic safety is a protection method employed in potentially explosive atmospheres. Devices that are certified as "intrinsically safe" are designed to be unable to release sufficient energy, by either thermal or electrical means, to cause ignition of flammable material (gas or dust/particulates).

There are no global intrinsically safe standards or certifications, but there are organizations that influence directives in certain world geographies.



APPROVED










US



Factory Mutual – In the United States, Factory Mutual Research, managed by Factory Mutual (FM) Global, is a non-profit scientific and testing organization that has tested and certified over 40,000 products in the last 165 years. FM Research has set certification guidelines for equipment used in potentially explosive atmospheres.


Canadian Standards Association (CSA) – Accreditation body for North American regulations, based in Toronto, Canada.

ATEX – The primary intrinsically safe standard, which has been set in the European Union with the Directive 94/9/EC, commonly called ATEX (Atmosphères Explosibles), French for explosive atmospheres.

Fluke products	ATEX certified	North American Certification	For additional product detail
 28 II Ex: Intrinsically Safe True-rms Multimeter	 II 2 G Ex ia IIC T4	FM Approval Pending	See page 11
 707Ex: Intrinsically Safe mA Calibrator	 II 2 G Ex ia IIC T4	 APPROVED N.I. Class I, Div 2, Groups A-D T4	See page 35
 718Ex: Intrinsically Safe Pressure Calibrator	 II 1 G Ex ia IIC T4	 LR 110460 I.S. Class I, Div 1, Groups A-D T4	See page 39
 725Ex: Intrinsically Safe Multifunction Calibrator	 II 1 G Ex ia IIB 171 °C	 LR 110460 I.S. Class I, Div 1, Groups B-D, 171 °C	See page 37
 700PEX: Intrinsically Safe Pressure Modules	 II 1 G Ex ia IIC T4	 221830 I.S. Class I, Div 1, Groups A-D T4	See page 39
 574-NI Nonincendive Infrared Thermometer		 APPROVED Class I, Division 2, Groups A, B, C, D; Class I, Zone 2 IIC	See page 53
 700G Series Intrinsically Safe Pressure Gauges	 II 3 G Ex ia IIB T6	 LR 110460 CSA Class I, Div. 2 Groups A-D rating	See page 40

Pressure gauges

Fluke-700G Series Pressure Gauges

- Rugged robust design
- Nine pressure ranges from 0-15 psi up to 10,000 psi
- CSA Class I, Div. 2 Groups A-D rating
-  ii 3 G Ex nA IIB T6 ATEX certification
- 0.05 % of full scale accuracy
- Measurement logging to internal memory for upload (requires optional 700G/Track Software)
- Backlit display



Fluke 574-NI Nonincendive Thermometer

For data loading and extra safety the Fluke 574 Nonincendive (NI) Thermometer has the same great features as the 574 model thermometer with the extra confidence of a Factory Mutual approval for use in hazardous environments.

Class I, Division 2, Groups A, B, C, D; Class I, Zone 2 IIC; T4 Ta=50 °C when used with 1.5 V alkaline batteries.



Ordering information

Models	Models
FLUKE-28 II Ex IS True-rms Multimeter	FLUKE-707Ex IS Loop Calibrator
FLUKE-718Ex IS Pressure Calibrator	FLUKE-725Ex IS Multifunction Process Calibrator
FLUKE-700PEX Pressure Modules (700P: 01, 5, 6, 9, 24, 27, 29, A4Ex)	FLUKE-574-NI Precision Infrared Thermometer w/Logging SW Nonincendive
FLUKE-700G Pressure test Gauge, (9) models Fluke-700G04 0-15 psi, 1 BAR Fluke-700G05 0 to 30 psi, 2 BAR Fluke-700G06 0 to 100 psi, 7 BAR Fluke-700G27 0 to 300 psi, 20 BAR	Fluke-700G07 0 to 500 psi, 34 BAR Fluke-700G08 0 to 1000 psi, 70 BAR Fluke-700G29 0 to 3000 psi, 200 BAR Fluke-700G30 0 to 5000 psi, 345 BAR Fluke-700G31 0 to 10000 psi, 690 BAR

Check price and availability at
www.fluke.com/wtb