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.



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 product | s | 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 110000 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 110000 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 | L.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 | CSA Class I, Div. 2 Groups A-D rating | See page 40 |

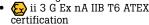
Ordering information

| Models | | Models | |
|----------------|---|--|--|
| FLUKE-28 II Ex | IS True-rms Multimeter | FLUKE-707Ex | IS Loop Calibrator |
| FLUKE-718Ex | IS Pressure Calibrator | FLUKE-725Ex | IS Multifuction 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-700G08 (Fluke-700G29 (Fluke-700G30 (| 0 to 500 psi, 34 BAR 0 to 1000 psi, 70 BAR 0 to 3000 psi, 200 BAR 0 to 5000 psi, 345 BAR 0 to 10000 psi, 690 BAR |

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



- 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.

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