

ATEX Certified Test Tools

The Fluke line of intrinsically safe tools is designed to meet the needs of technicians working in and around hazardous areas. The tools are ideal for environments in chemical plants, petro-chemical plants, oil platforms, refineries and other locations where risk of explosion exists. The products are easily recognizable from standard Fluke products by their lighter grey colour and red holster.

BELMET97

| www.belmet97.hr | info@belmet97.hr | Zagreb, HR/CRO |



A brief look at ATEX

Intrinsic safety is a protection standard 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, dust/particulates).

What is “Intrinsically Safe”?

Intrinsically safe standards apply to all equipment that can create one or more of a range of defined potential explosion sources:

- Electrical sparks
- Electrical arcs
- Flames
- Hot surfaces
- Static electricity
- Electromagnetic radiation
- Chemical reactions
- Mechanical impact
- Mechanical friction
- Compression ignition
- Acoustic energy
- Ionizing radiation

What industries are intrinsically safe products designed for?

- Petro-chemical
- Oil platforms and refineries
- Pharmaceutical
- Bulk materials (e.g. grain)
- Mining
- Pipelines
- Any environment where explosive gases are present

What is ATEX?

The primary intrinsically safe standard has been set in the European Union with the 9/94/EC Directive, commonly called ATEX (“Atmosphères Explosibles,” French for explosive atmospheres). The stated goal of the guidelines is to “help ensure the free movement of products in the European Union” by “minimizing the number of safeguard clause applications, at least those originating from divergent interpretations. The ATEX rules have been in place as a voluntary standard since 1 March 1996. The rules are mandatory on electrical and electronic equipment for use in environments subject to explosion hazard sold in the EU starting 1 July 2003. From

this date onwards, all products sold for use in explosive atmospheres must have ATEX certification and carry the distinctive symbol: Ⓔ

The Fluke Ex (IS) product line

Fluke is among the first manufacturers to produce handheld test tools according to the latest ATEX standards. The Fluke line of intrinsically safe tools is designed to meet the needs of technicians working in and around hazardous areas:

- Install, maintain and troubleshoot equipment by using the new Fluke 28 II Ex Digital Multimeter
- Maintain and calibrate sensors, transmitters and control loops with the line of Ex field calibrators

The tools are ideal for environments in petro-chemical plants, oil platforms, refineries and other locations subject to risk of explosion.

Apart from having the ATEX markings, the visual difference between a standard Fluke tool and the corresponding Ex version is the different grey body colour and a red, conductive holster designed specifically to eliminate the potential for electrical discharge.

Inside, the Fluke Ex tools have been reengineered to reduce energy avoiding generation of heat and electrical sparks. They are premium products designed for ultimate safety.

Making sense of ATEX certification Fluke 707Ex is ATEX-compliant and is certified Ⓔ II 2 G EEx ia IIC T4— but what exactly does that mean?

Here a brief explanation of the ATEX certification designations.



ATEX certification 707Ex

Ⓔ	The ATEX examination mark. This sign is required on all devices used in European hazardous areas.
II 2 G	The classification of zones. “II” designates the tool is approved for all non-mining areas. “2” represents the category of the device, in this case the device is rated for the second most hazardous areas. “G” designates atmosphere, in this case gas, vapors and mist.
EEx	Explosion protection based on European Ex-regulations.
ia	The type of protection from explosion, in this case the energy in a device or connector has been reduced to a safe value.
IIC	Gas Group. “IIC” indicates compatibility with the most dangerous gas group.
T4	Temperature class gives the user the maximum temperature of a surface that may be in contact to the Ex atmosphere under fault conditions. T4 is rated at 135°C.

ATEX-certified Test Tools



Fluke intrinsically safe tools for tough measurement and calibration tasks



Fluke 28 II Ex

**Fluke 28 II Ex
Intrinsically safe True-rms Digital Multimeter**

Now there's one intrinsically safe digital multimeter (DMM) you can use in IIC (gas) Zone 1 and 2 and IIIC (dust) Zone 21 and 22 areas. Whether you work in petroleum, chemical, or pharmaceutical environments, all the test and troubleshooting power you need is packed into the most rugged intrinsically safe (IS) DMM Fluke has ever built. The Fluke 28II Ex is also water-proof, dust-proof and drop-proof.

- ATEX safety rating
II 2 G Ex ia IIC T4 Gb
II 2 D Ex ia IIIC T130 °C Db
I M1 Ex ia I Ma
- CAT III 1000V/CAT IV 600V electrical safety rating

See also page 28



Fluke 707Ex

**Fluke 707Ex
Fast, one-handed tool for loop checks**

The Fluke 707Ex is the ideal, stand alone tool for calibration and maintenance of 4 to 20 mA control loops. It provides 24V loop power while measuring mA, and lets you measure and source/simulate mA with 1 µA resolution.

- ATEX safety rating II 2G EEx ia IIC T4

See also page 130



Fluke 725Ex

**Fluke 725Ex
Intrinsically safe Multifunction Process Calibrator**

The Fluke 725Ex intrinsically safe Multifunction Process Calibrator is powerful yet easy-to-use. Combined with the Fluke 700PEX Pressure Modules, the 725Ex is able to calibrate almost any process instrument likely to need service in any area where explosive gases may be present.

- ATEX safety rating II IG EEx ia IIB 171°C

See also page 122



Fluke 718Ex

**Fluke 718Ex
Self-contained Pressure Calibrator**

The Fluke 718Ex offers a convenient, self contained solution for pressure measurements and calibration. With its internal pressure sensor and pump, it's ready for immediate, stand alone use. The pressure range can easily be extended to up to 200 bar with any of the 8 Fluke 700PEX Pressure Modules.

- ATEX safety rating II IG EEx ia IIC T4

See also page 125



568 Ex

Fluke 568 Ex Intrinsically safe Infrared thermometer

With a rugged, easy-to-use, ergonomic design, the Fluke 568 Ex can stand up to tough industrial, electrical, and mechanical environments. Meets intrinsically safe certifications in Class I Div 1 and Div 2 or Zone 1 and 2 hazardous environments from recognized safety agencies around the world.

- ATEX safety rating Zone 1 and 2
IECEX EPS 13.0006X Ex ia IIC T4 Gb

See also page 67



Fluke 700Ex

Fluke 700Ex Pressure Modules

These intrinsically safe pressure modules for use with the Fluke 725Ex Multifunctional Process Calibrator and Fluke 718Ex Pressure Calibrator cover the most commonly used pressure calibration ranges from 0-25 mbar and 0-200 bar. There's a choice of 8 gage, differential and absolute modules.

- ATEX safety rating
II 1G EEx ia IIC T4

Fluke Connect™
Digital Multimeters
Clamp Meters
Electrical Testers
Battery Testers
Insulation Testers
Earth Ground Testers
Installation Testers
Portable Appliance Testers
Digital Thermometers
Thermal Imagers
Distance Meters
Indoor Air Quality Tools
ScopeMeter® Test Tools
Power Quality Tools
Visual Infrared Thermometers
Field Calibrators
Vibration Tester
Radiation Tester
EX Test Tools
Accessories



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Fluke. *Keeping your world
up and running.*®

Fluke (UK) Ltd.
52 Hurricane Way
Norwich
Norfolk
NR6 6 JB
United Kingdom

Tel.: +44 (0)20 7942 0700
Fax.: +44 (0)20 7942 0701
E-mail: industrial@uk.fluke.nl

Web: www.fluke.co.uk

Fluke Corporation
P.O. Box 9090
Everett, WA USA 98206

Web: www.fluke.com

Fluke Europe B.V.
P.O. Box 1186
5602 BD Eindhoven
The Netherlands

Web: www.fluke.com

For more information call:

In the U.S.A. (800) 443-5853
or Fax (425) 446-5116
In Europe/M-East/AFrica +31 (0)40 2 675 200
or Fax +31 (0)40 2 675 222
In Canada (905) 890-7600
or Fax (905) 890-6866
From other countries +1 (425) 446-5500
or Fax +1 (425) 446-5116

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