

# FP95 ATEX Certified IIC Flameproof Flame Monitor

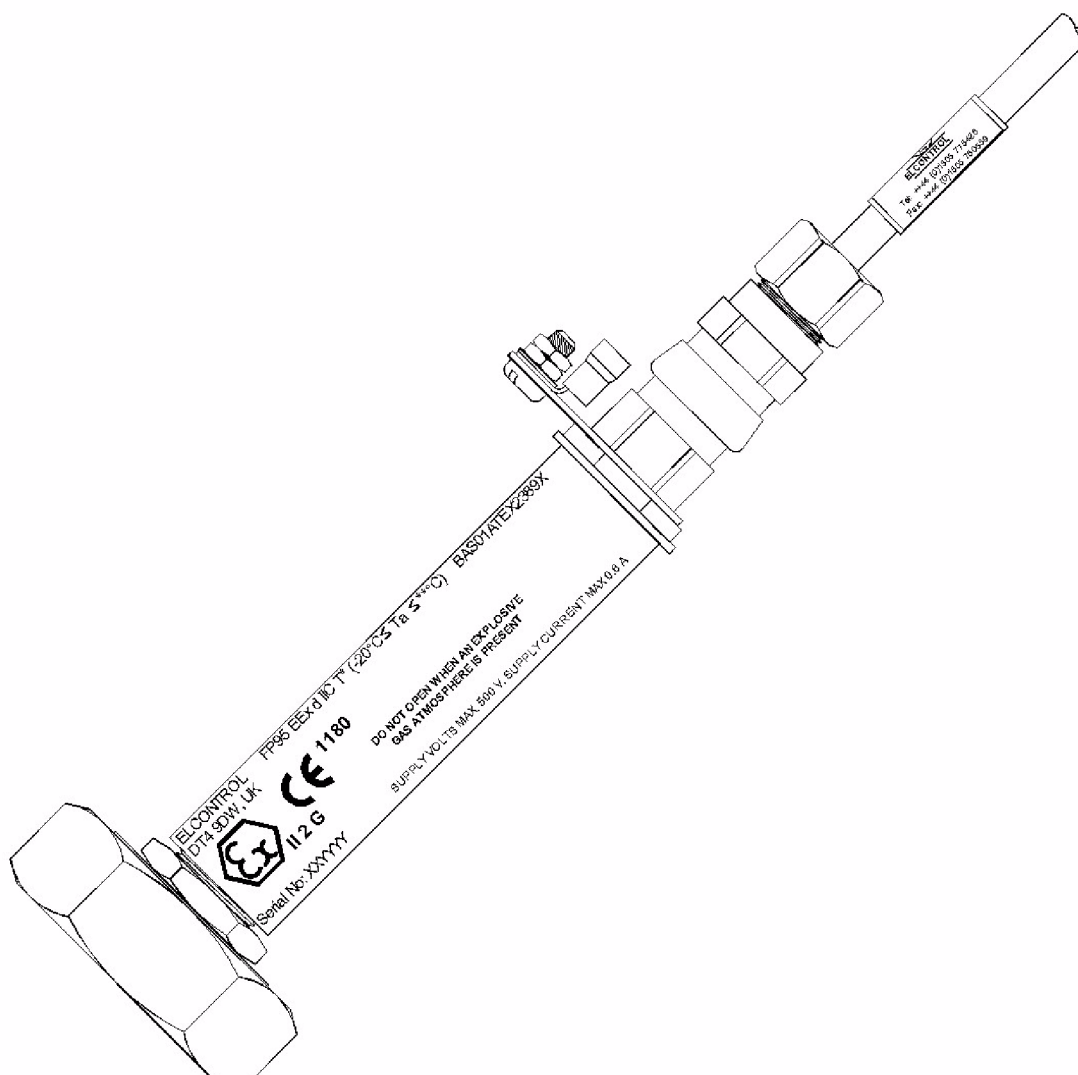


"Compact, economic, hazardous area flame monitoring"

Certified  II 2 G EEx d IIC T\*\* (-20°C ≤ Ta ≤ \*\*°C)

w Equipment 'T' ratings of up to T6 and T<sub>amb</sub> values of up to 100°C

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explosive atmospheres above ground.

"The new FP95 is proof of Elcontrols continued development of products for use in the hazardous area arena. Using the latest in materials and technology, Elcontrol have developed a unique flameproof flame monitor of compact proportions, for use with their range of flameproof and safe-area amplifier units."

# Elcontrol FP95 ATEX IIC Flameproof Flame Monitor

## **Operating Principles:**

The Elcontrol FP95 flame scanner uses proven methods of flame monitoring. The unit is based around a photo-detector, sensitive to either Ultra-Violet (UV), Infra-Red (IR) or Visible (VIS) radiation, contained within the flameproof EExd IIC housing.

The 'phototube' style of UV detector operates from a high voltage AC supply, and other types of detector, including solid-state UV detectors, operate from a low voltage DC supply. The signal from the detectors is processed by an associated flame amplifier in order to ascertain flame strength and characteristics. Elcontrol can supply a range of flame amplifiers to suit a particular application, contact sales for details.

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## **Technical Specifications:**

### **Enclosure:**

Method of protection:	Flameproof EEx d
Certified to CENELEC standards:	EN50018 : 2000, EN50014 : 1997
ATEX classification:	II 2 G
ATEX certificate reference:	BAS01ATEX2389X
Temperature class and ambient operating temperature range:	T6 (-20°C ≤ Ta ≤ 55°C) T6 (-20°C ≤ Ta ≤ 65°C) T5 (-20°C ≤ Ta ≤ 75°C) T4 (-20°C ≤ Ta ≤ 100°C)

**(NB: The actual T class applicable will depend on the cable/gland combination specified, and will be marked on the FP95 body)**

Mounting arrangements:	M25 male as standard, other mountings on request
Material:	Brass type CZ121 to BS2874 : 1986 Stainless Steel type 316 to BS970 : PART 1 : 1983 Steel type ENIA to BS970 : PART 1 : 1983
Finish:	Bodies may be plated for corrosion resistance.
Dimensions (typical):	Length: 230 mm, Diameter: 40 mm (excluding mounting and earthing arrangements)
Weight:	Approx. 1 Kg (Brass)

### **Electronics:**

Power dissipation:	3 W maximum
Cell life:	10,000 hours typical (UV phototube) Indefinite (other detectors)
Spectral response:	190 to 270 nm (UV phototube) Other detectors - to customer requirement.
Output Signal:	Max. approx. 3 mA DC into a 10K load (UV phototube) Other detectors - to manufacturers specification.

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## **Contact Details:**

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