



(1) **CERTIFICATE OF CONFORMITY**

(2) **KEMA No. Ex-94.C.8827 X**

(3) This certificate is issued for the electrical apparatus:

Mass Flow Transmitter Model CFT10 - EDB - .

(4) **Manufacturer:**

**The Foxboro Company
38, Neponset Avenue
Foxboro, MA 02035
U.S.A.**

Applicant:

**Foxboro Nederland N.V.
Baarnsche Dijk 10
3741 LS Baarn
The Netherlands**

(5) This electrical apparatus and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

(6) KEMA, being an Approved Certification Body in accordance with Article 14 of the Council Directive of the European Communities of 18 December 1975 (76/117/EEC), confirms that the apparatus has been found to comply with the harmonised European standards:

Electrical apparatus for potentially explosive atmospheres

**EN 50 014 : 1977 + A1 ... A5, General requirements
EN 50 018 : 1977 + A1 ... A3, Flameproof enclosure "d"
EN 50 020 : 1977 + A1 ... A2, Intrinsic safety "i"**

and has successfully met the examination and test requirements which are recorded in a confidential test report.

(7) The apparatus marking shall include the code:

EEx d [ib] IIB T6

(8) The manufacturer of the electrical apparatus referred to in this certificate, has the responsibility to ensure that the apparatus conforms to the specification laid down in the Annex to this certificate and has satisfied routine verifications and tests specified therein.

(9) This apparatus may be marked with the Distinctive Community Mark specified in Annex II to the Commission Directive of 16 January 1984 (84/47/EEC).

Arnhem, 15 September 1994

by order of the Board of Directors of N.V. KEMA

**C.M. Boschloo
Certification Manager**

This Certificate including the Annex forms an inseparable whole; reproduction in abridged or modified form is not permitted.

N.V. KEMA

ANNEX

to Certificate of Conformity KEMA No. Ex-94.C.8827 X

Description

Mass Flow Transmitter Model CFT10 - EDB - . is used to supply a Mass Flow Tube and to convert the measurement signal from the Mass Flow Tube into a digital and/or current output signal.

The flameproof enclosure is in type of explosion protection EEx d IIB.

Electrical data

Supply	24 - 50 Vdc, approx. 15 W or 120 Vac or 240 Vac + 10%, - 22%, 47 ... 63 Hz, approx. 22 VA
(terminals +, 0v, G or L, N, G)	
Output circuits	for connection to electrical apparatus with operating voltages up to 250 V
(terminals of TB2)	
terminals P+, P-, A1, A-, A2	U = 60 Vdc max I = 500 mA max
terminals AP, A-	U = 12 Vdc max I = 12 mA max
terminals GA, A*, A, GB, B*, B or S, F-, F+	U = 5 Vdc max I = 10 mA max
terminals I+, I-	I = 0 - 20 mA
Drive and input circuits	in type of explosion protection intrinsic safety EEx ib IIB
(terminals 1 ... 12)	
	only for connection to the intrinsically safe drive, sensor and RTD circuits of a certified Mass Flow Tube Series CFS10 and CFS20, with Certificate of Conformity INIEX 90C.101.142 X.

The intrinsically safe drive and input circuits are galvanically connected with the supply and output circuits.

Special condition for safe use

For the connection of a certified intrinsically safe Mass Flow Tube Series CFS10 and CFS20 the applicable information, in particular the applicable special prescriptions, as listed in Certificate of Conformity INIEX 90C.101.142 X must be observed.

Certificate of Conformity KEMA No. Ex-94.C.8827 X**Installation instruction**

The cable entry devices and the closing elements of unused apertures shall be of a certified flameproof type, suitable for the conditions of use.

Test documentation

signed

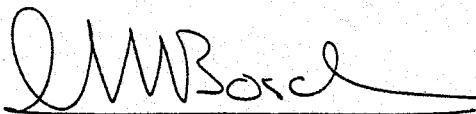
1. Certificate of Conformity INIEX 90C.101.142 X
Certificate of Conformity PTB No. Ex-87/2103
Component Certificate PTB No. Ex-87.B.1086 U

2. Description QA-4042/HZ (6 pages) 28.06.1994

3. Drawing No. PS10440 28.06.1994
 PS10441 28.06.1994
 PS10064 (4 sheets) 17.12.1990
 PS10218 (2 sheets) 17.12.1990
 PS10073 (5 sheets) 17.12.1990
 PS10075 (2 sheets) 17.12.1990

4. Sample

Arnhem, 15 September 1994
by order of the Board of Directors of N.V. KEMA



C.M. Boschloo
Certification Manager

AMENDMENT 1

to Certificate of Conformity KEMA No. Ex-94.C.8827 X

Manufacturer:

The Foxboro Company
38, Neponset Avenue
Foxboro, MA 02035
USA

Applicant:

Foxboro Nederland N.V.
Baarnsche Dijk 10
3741 LS Baarn
The Netherlands

Description

In future, the Mass Flow Transmitter Model CFT10 - EDB - . may also be manufactured in accordance with undermentioned documentation.

The modification concerns small changes of the electronic circuit.

All other data remain unchanged.

The range of Mass Flow Transmitters is extended with Model CFT15 - EDB - . with undermentioned electrical data.

Electrical data

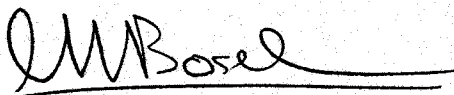
Supply	same as specified for CFT10 -...
Output circuits	for connection to electrical apparatus with
(terminals of TB2)	operating voltages up to 250 V
terminals P+, P-, A1, A-, A2	same as specified for CFT10 -...
terminals AP, A-	same as specified for CFT10 -...
terminals 485+, 485S, 485-	U = 5 Vdc max
	I = 500 mA max
terminals I1+, I1-, I2+, I2-, I3+, I3-	I = 0 - 20 mA
Drive and input circuits	same as specified for CFT10 -...
(terminals 1 ... 12)	

Test documentation

signed

1. Description QA-5023/HZ (2 sheets))	
)	
2. Drawing no. PS10491 (2 sheets))	21.03.1995
PS10492)	

Arnhem, 31 May 1995
by order of the Board of Directors of N.V. KEMA



C.M. Boschloo
Certification Manager

Code: EEx d [ib] IIB T6

[95.9178]