[1] # EC-TYPE EXAMINATION CERTIFICATE

[2] **Component intended for use on/in equipment or protective system intended for use in potentially explosive atmospheres Directive 94/9/EC**

[3] EC-Type Examination Certificate number:

CESI 00 ATEX 008 U

[4] Component: Enclosure series TTE100 for temperature measuring devices

[5] Manufacturer: **F.P.L. Elettroceramica Industriale Srl**

[6] Address: Via Roma n. 60 Lungavilla (Pavia - Italy)

[7] This component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] CESI, notified body n° 0722 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report n° EX-A0/008710.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014: 1997 + A1..A2 EN 50018: 1994

[10] The sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

[11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.

[12] The marking of the component shall include the following:

II 2 G EEx d IIC

This certificate may only be reproduced in its entirety and without any change, schedule included.

date June 2nd, 2000 - translation issued on June 6th, 2000

prepared CERT - P. Ostano

verified CERT - M. Balaz

approvved CERT - U. Colombo

CESI
CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO
Responsabile Area Certificazione

CESI
Centro Elettrotecnico
Sperimentale Italiano
Giacinto Motta spa

Via R. Rubattino 54
20134 Milano - Italia
Telefono 0221251 r.a.
Fax 022125440
http://www.cesi.it

Capitale sociale 16 miliardi
interamente versato
CCIAA di Milano n. 429222
Registro delle Imprese
di Milano n. 84067

Sezione Ordinaria
Tribunale Milano
P.I. IT00793580150
C.F. 00793580150

[13] **Schedule**

[14] **EC-TYPE EXAMINATION CERTIFICATE N° CESI 00 ATEX 008 U**

[15] Description of component

The enclosure for temperature measuring devices is identified by a code as follows:

TTE100 X1 N1 X2 N2

where:

X1 = type of thread for connection to the process

A	B	C	D	E
$G_{1/2}$	$G_{3/4}$	1/2NPT	3/4NPT	M 24x1,5

N1 = type of thread for cable entry

1	2	3	4	5	6
$G_{1/2}$	$G_{3/4}$	1/2NPT	3/4NPT	PG-16	M 20x1,5

X2= surface varnishing (not affecting the type of protection)

N2 = type of internal clamping (not affecting the type of protection)

The accessories used for cable entry and for closing unused apertures shall guarantee a degree of protection at least IP 66 and shall be certified as "E" or ATEX generation according to the standards EN 50014 and EN 50018.

Degree of protection

The TTE100 enclosure has been tested in accordance with the specification of EN 60529:1991 for the degree of protection, in the configurations indicated in the descriptive documents annexed. The test results prove that the enclosure complies with the specification of EN 60529:1991 for the degree of protection:

IP 66 when the enclosure is closed by a threaded nipple
IP 54 when the enclosure is connected to the thermometric well by means of a 3-piece fitting
This degree of protection is guaranteed only if a silicon grease layer is spread between the two flat surfaces of the 3-piece fitting.

This certificate may only be reproduced in its entirety and without any change, schedule included.

Prot. A0/016578 P: 3
keywords: 13010R 27420G 48010M 54250O 66540E

[13]

Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE N° CESI 00 ATEX 008 U**

[16] Report N° EX-A0/008496)

The manufacturer shall carry out the routine tests prescribed at clause 24 of the EN 50014 standard. The manufacturer is exempted from the routine overpressure test on the TTE100 enclosure since this enclosure has passed the type test at a pressure of 30 bar, equal to 4 times the reference pressure.

Descriptive documents (prot. EX-A0/008496)

- n° NT0398 Rev. F (6 pages)	dated	29.05.2000
- n° PJ0306CS Rev. D	dated	15.05.2000
- n° PJ0312CS Rev. D	dated	29.05.2000
- n° 5098001 Rev. E	dated	11.04.2000
- n° SCEX01 Rev. B	dated	15.05.2000
- n° TTE100 Rev. G	dated	29.05.2000
- safety instructions		
- attestation of conformity for components		

[17] Schedule of limitations

None

[18] Essential Health and Safety Requirements

Covered by statndards

This certificate may only be reproduced in its entirety and without any change, schedule included.