



Translation

3th Supplement

(Supplement in accordance with Directive 94/9/EC Annex III number 6)

to the EC-Type Examination Certificate BVS 05 ATEX E 004 X

Equipment: Transponder reader type TPF-35Ex-45 und TPF-35Ex

Manufacturer: TECTUS Transponder Technology GmbH

Address: 47445 Moers

Subject and Type

The transponder reader type TPF-35Ex can be modified according to the descriptive documents as mentioned in the pertinent test and assessment report and receives then the marking:

Transponder reader type TPF-35Ex-45

Description

Transponder reader type TPF-35Ex-45:

In the existing Flameproof Enclosure a new reader - printed circuit board is used.

The transponder reader type TPF-35Ex-45 is used for connection of two antennas type TPA-***.

Furthermore, the transponder reader type TPF-35Ex-45 was enhanced with an additional interface (TCPIP).

Transponder reader type TPF-35Ex:

The non-intrinsically safe circuit was slightly modified.

The Essential Health and Safety Requirements of the modified equipment are assured by compliance with:

EN 60079-0:2006	General requirements
EN 60079-1:2007	Flameproof enclosure 'd'
EN 60079-7:2007	Increased safety 'e'
EN 60079-18:2004	Encapsulation 'm'

The marking of the equipment type TPF-35Ex-45 shall include the following:



II 2G Ex de IIB T4
I M2 Ex de I

The marking of the equipment type TPF-35Ex is unchanged.

Parameters

1	Transponder reader type TPF-35Ex-45			
1.1	Supply circuit of transponder reader (terminal X1, terminals X1.1-X1.4)			
	Supply voltage	up to AC	230	V
	Network frequency		50 up to 60	Hz
	Power input	up to	15	W
1.2	Remote data transmission RS485 or TCPIP, RS232 (terminal X2, terminals X2.1-X2.4 and X2.9-X2.11)			
	Voltage	up to DC	15	V
1.3	Antenna outputs			
	(Output A: terminal X3, terminals X3.1-X3.3)			
	(Output B: terminal X3, terminals X3.4-X3.6)			
	Output values for each antenna output:			
	Voltage	up to AC (120 up to 140 kHz)	110	V
	Transmission power	up to	2,5	W
1.4	Opto-coupler connections (terminal X4, terminals X4.1-X4.2 and X4.4-X4.5)			
	Voltage	up to DC	30	V
1.5	Relay contact connections (terminal X5, terminals X5.1-X5.3 and X5.5-X5.7 and X5.9-X5.11)			
	Voltage	up to UC	60	V
	Current	up to	2	A
2	Transponder reader type TPF-35Ex			
	Unchanged			

Special conditions for safe use

In the vicinity of the transponder reader a separator must be installed in order to switch all input leads to neutral.
The antenna type TPA-*** may only be used in conjunction with the transponder reader type TPF-35Ex or TPF-35Ex-45.

Test and assessment report

BVS PP 05.2070 EG as of 11.01.2010

DEKRA EXAM GmbH

Bochum, dated 11. January 2010

Signed: Simanski


Certification body

Signed: Dr. Eickhoff

Special services unit

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

44809 Bochum, 11.01.2010
BVS-Rip/Ld/Her A 20090772

DEKRA EXAM GmbH


Certification body



Special services unit