

# Physikalisch-Technische Bundesanstalt

## Partial Certificate **PTB Nr. Ex-88.B.1019 U**

This certificate is issued for the  
Pressurization and Purging System EEx p Type F 800

of the company Gönzheimer Elektronik GmbH D-  
6734 Lambrecht/Pfalz

The make of this electrical equipment as well as the different allowable executions to this partial certificate are stated in the Annex.

The Physikalisch-Technische Bundesanstalt as the inspecting authority according to Article 14 of the directives of the Council of the European Communities, dated 18 December 1975 (76/117 EWG) certifies the conformity of this electrical equipment with the harmonized European Norm.

EN 50 016:1977+A1 (VDE 0170/0171 Part 3/9.80) Purge/Pressurised "p"  
- paragraphs 5,6 and Annex A 2b - ;

The pressure monitor type DW 812 is to be marked as follows:

**PTB Nr Ex-88.B.1019U**

The manufacturer is responsible that the equipment marked as shown above - in its make - is in conformity with the examined documents and that the obligatory tests of pieces have passed the tests.

This partial certificate is not a certificate of conformity or control, it only serves as the basis for the issuance of the complete Inspection Certificate.

This piece of production may not be marked with the mutual distinctive mark according to Annex II of the directive of the Commission, dated 16 January 1984 (84/47/EWG).

The Pressurization and Purging System EEx p Type F 800 serves as an auxiliary equipment for production, surveillance, and safely keeping-up the Pressurization and Purging-safed equipment.

In behalf

Braunschweig, 19 Sep. 88

Stamp

Löper  
engineer

# Physikalisch-Technische Bundesanstalt

A N N E X  
for partial certificate PTB Nr. EX-88.B.1019 U

**Mak**

The Pressurization and Purging System EEx p Type F 800 consists of:

- a) selective Control Unit  
Type FS 810 (PTB No. Ex-82/2114) for installation outside the Hazardous Area  
  
Type FS 821 (PTB No. Ex-88.B.2022) for installation within the Hazardous Area  
  
with intrinsically safe circuits for connection to the pressure monitor DW 812
- b) Pressure monitor DW 812  
with pressure-switches and purging sensor(s) for connection to the Control Unit  
Installation on pressurization and purging capsulated enclosure
- c) Magnet valve (with extra certificate) for preparing the ignition protection gases d) Controls  
Type BT 813..815  
for connection to the Control Unit with intrinsically safe circuits (°i°)

The automatic Pressurization and Purging System can be manufactured in the following variations:

- a) Pressurization and Purging System with Continuous Flow of ignition protection gas b) Pressurization and Purging System with Leakage Compensation

<b>Inspection documents</b>		
1. Description (13 sheets)		
2. Drawings No. DW	812.600.4	
	DW 812.600.4	(St)
	DW 812.400.4	
	DW 812.401.4	
	DW 812.402.4	
	DW 812.403.4	
	DW 812.500.4	
	DW 812.601.4	
	DW 812.601.4	(St)
	DW 812.404.4	
	DW 812.405.4	
	DW 812.406.4	
	DW 812.407.4	
	DW 812.408.4	
	DW 812.602.4	
	DW 812.602.4	(St)
	DW 812.409.4	
	DW 812.410.4	
	DW 812.411.4	
	DW 812.412.4	
	allsigned on	18 December 87

# Physikalisch-Technische Bundesanstalt

Annex for partial certificate PTB Nr. Ex-88.B.1019 U

## Remarks

1. This inspection certificate comprise only the inspection of make and function of the auxiliary equipment.

A separate inspection certificate (conformity certificate) must be at hand for the Pressurization and Purging capsulated enclosure (operation means), which are defined for make and temperature classification.

2. The Control Unit, type FS 821 can within the Hazardous Areas be used.

3. The Control Unit, type FS 810 is only allowed for outside the Hazardous Area. 4. The magnet valve must have a separate inspection certificate.

5. The operational directives of the manufacturer must be adhered to.

6. The extension of the ignition protection gase (directly at the pressure monitor) can end in the Hazardous area endangered area. By the make of the pressure monitor anoutcoming of sparks or ignition particles is being avoided and a fast intrusion of the surrounding atmosphere is hindered.

7. For the execution with "Bypass-switch" the operator must be informed of the following:

The start-up of the electrical control with "Bypass-switch" needs the approval of the manager or his authorized assistant. This approval can only be given, if it is guaranteed that during the necessary work there is no atmosphere which could explode or if the necessary protection means are done avoiding any explosion danger ("Fire permission certificate").

in behalf

Braunschweig, 19 Sep. 88

Stamp

Löper  
Engineer