

(1) **EU - Type Examination Certificate**

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres – Directive 2014/34/EU  
(3) EU - Type Examination Certificate Number

**EPS 15 ATEX 1 069 X**


**Revision 0**

- (4) Equipment: HART Add-On Module Type 17-A1Z0-0005 and G7-A0Z0-0007  
(5) Manufacturer: BARTEC GmbH  
(6) Address: Max-Eyth-Straße 16  
97980 Bad Mergentheim  
Deutschland  
(7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.  
(8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 15TH0312.  
(9) Compliance with the essential health and safety requirements has been assured by compliance with:

**EN 60079-0:2012 + A11:2013**

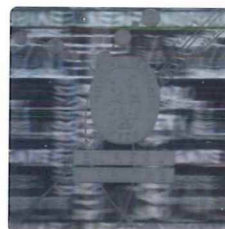
**EN 60079-11:2012**

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.  
(11) This EU - Type Examination Certificate relates only to the design and examination of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.  
(12) The marking of the equipment shall include the following:

 II 2G Ex ia [ja Ga] IIC T4 Gb (17-A1Z0-0005)  
II (2)G [Ex ia Ga] IIC (G7-A0Z0-0007)



Nuremberg, 2016-04-28



(13)

## Annex

(14) **EU - Type Examination Certificate EPS 15 ATEX 1 069 X**

**Revision 0**

(15) Description of equipment:

The HART add on modules type 17-A1Z0-0005 and G7-A0Z0-0007 are extension modules for operation mounted on an intrinsic safe BARTEC tablet PC. The modules can be connected as a secondary master to a HART-loop for digital HART communication. It allows operations like the configuration of HART devices and network sniffing. The HART loop is connected via two banana sockets.

The device type G7-A0Z0-0007 shall only be used outside hazardous areas and provides an intrinsic safe interface that can be connected to HART loops located in hazardous areas.

Electrical data:

	Interface		
	HART	USB Power	USB Data
Type 17-A1Z0-0005	$U_m = 60 \text{ V}$ $U_i = 30 \text{ V}$ $U_o = 3 \text{ V}$ $I_i = 130 \text{ mA}$ $I_o = 10 \text{ mA}$	$U_i = 7,18 \text{ V}$ $I_i = 7,55 \text{ A}$ (internal current limitation)	$U_i = 7,83 \text{ V}$ $I_i = 1,32 \text{ A}$ (internal current limitation)
Type G7-A0Z0-0007	$U_m = 6,5 \text{ V DC}$		

(16) Reference number: 15TH0312

(17) Special conditions for safe use:

Maximum ambient temperature range: -20 °C to +50 °C.

The HART add on modules shall be protected against strong charge generating processes.

It is allowed to connect the HART add on module to non certified HART circuits outside hazardous areas.  $U_m = 60 \text{ V}$  shall never be exceeded. The user is responsible to meet this condition.

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Nuremberg, 2016-04-28

