Product Testing

	[1]	EU-TY	PE EXAMINATION CERTIFICATE	(Ex)
	[2]	Equipme	ent intended for use in potentially explosive atmospheres Directive 2014/34/EU – Annex III	
	[3]	Certificate Number:	EPT 19 ATEX 3192 X issue 1	
	[4]	Equipment:	AT-10* Series	
			Pressure switches & gauges	
	[5]	Manufacturer:	Comhas S.r.I.	
1	[6]	Address:	Via Matteotti, 66 - 20092 Cinisello Balsamo (MI) Italia	
	[7]	This equipment and its a	accepted variations are specified in the annex to this Certificate.	
	[8] [9]	2014/34/EU of the Euro equipment has been fou design and construction Annex II of the Directive EPT.20.REL.01/201310	ssential health and safety requirements is assured through the verif	s that this ting to the s given in Report N°
		EN	I IEC 60079-0:2018; EN 60079-1:2014; EN 60079-31:2014	
	[10]		d after the Certificate number, it indicates that the equipment is subjected after use specified in the annex to this Certificate.	ect to the
	[11]	specified equipment. Further requirements of	ATION CERTIFICATE relates only to the design, the exam and the te of the Directive 2014/34/EU apply to the manufacture and suppl rements are not object of this Certificate.	
	[12]	The equipment shall inc	lude the sign (Ex) and the following strings:	
		II 2G Ex db IIC T5, T6 GI II 2G Ex db IIC T5, T6 GI II 2D Ex tb IIIC T75 °C D Process fluid temperature ra	-60 °C \leq Ta \leq +50 °C T6 b and -60 °C \leq Ta \leq +60 °C T5 b -60 °C \leq Ta \leq +60 °C T5	
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ANNEX

EU-TYPE EXAMINATION CERTIFICATE N. EPT 19 ATEX 3192 X i

issue 1

[15] Equipment description

[13]

[14]

The AT-10* series equipment are electrical devices protected by Ex db or / and Ex tb enclosures, suitable for use in presence of gas and dust explosive atmospheres.

The equipment is composed of a flameproof / dust tight enclosure with different dimensions (eventually with extensions), that contains instruments that may be connected to the external pressure sources (process connection) by two types of breathing devices, LD or STD.

These breathing devices can be installed on the pressure ports that are connected with the internal instrument, or coupled to the internal volume of enclosure, in order to maintain the internal pressure value within the limits of EN 60079-1 standard in presence of failure of containment system.

The instruments installed inside the enclosure are pressure switches, differential pressure switches, gauges and transmitters of series 2000, 1900, 616KD, 616KD-LR, 668B/D, ADPS, BYDS, EDPS, 607D, MS2, DM-2000, DM-2100, MS, 1800, DH3, DHC, 3000MR/MRS, 605, 607 and A3000, manufactured by Dwyer Instruments Inc.

The maximum permitted process fluid pressure, in relation to the breathing devices configuration, is detailed in safety parameters section.

Model Reference

The characteristics of the apparatus are codified according to the following schema:

[a]		[b]	[c]	[d]		[e] or [e ₁]		[f]	[g]	[h]	[i]
	-				-	*	-				

Number of digits (=)

Instrument identification code installed inside enclosure (*)

[a]	Equipment Type:	AT : Explosion proof version				
	Enclosure dimension:	100 : Type GUB-100 enclosure				
[b]		101 : Type GUB-101 enclosure				
		102 : Type GUB-102 enclosure				
F-1	Enclosure	N : Without extension				
[c]	extension:	P : Enclosure with extension				
	Materials	A : Enclosure manufactured in alur	ninum alloy			
[d]		S : Enclosure manufactured in stai	nless steel			
[e]	Instrument identification [e] code:(With no influences on type of protection)	* : Instrument code (manufac Instruments Inc.)	tured by Dwyer			
		These instruments types shall not be connected contains a flammable fluid or explosive atmospheric structure a				
	Instrument	- : 20 = - = = = BUNA IC				
[e1]	identification code:	- : 182 = - = = BUNA				
	(With influences on type of protection)	The instruments listed above can be connected contains a flammable fluid or explosive atmosp				
		B : Blind top cover				
[f]	Top cover type:	W : Top cover with cemented glass	window			



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[13] [14]	EU-TYPE EXAMIN		ANNEX	N. EPT 19 ATEX 3192 X issue 1					
[15]	5] Equipment description (continue)								
			1	: Brass made breathing device.					
		Identification:	2	: Stainless steel made breathing device.					
		Configuration:	VS0	: Two identical STD breathing valves installed at measure pressure ports with no additional breathing device, connected to the enclosure internal volume.					
			VLO	: Two identical LD breathing valves installed at measure pressure ports with no additional breathing device, connected to the enclosure internal volume.					
	[g] Breathing device:		Configuration:	VS1	: Two identical STD breathing valves installed at measure pressure ports with an additional breathing device type STD, connected to the enclosure internal volume.				
			VS2	: Two identical STD breathing valves installed at measure pressure ports with an additional breathing device type LD, connected to the enclosure internal volume.					
			VL1	: Two identical LD breathing valves installed at measure pressure ports, with an additional breathing device type LD, connected to the enclosure internal volume.					
				um process pressures permitted for these					
			configuration 12	ons are detailed as safety parameters. : ½" NPT ANSI/ASME B1.20.1.					
			34	: ½ NPT ANSI/ASME B1.20.1. : ¾" NPT ANSI/ASME B1.20.1.					
	[h] Cable entry:		20	: ISO M 20 x 1,5 mm					
				: ISO M 25 x 1,5 mm					
	[i] Supplementary digi	ts :	•••	: Other digits of equipment code with no influences on type of protection.					



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issue 1

[15] Equipment description

(continue)

[13]

[14]

Safety parameters:

In the table below are detailed the maximum process pressure values, applicable to a measure ports, in relation to the breathing elements type installed and their configurations:

		S	impli <mark>f</mark> ied	scheme o	f breathir	g devices		Maximum press only one pressure port connected	ure value with: both pressure ports connected
bei	VS0	ing	STD	ing	STD		none	10 kPa	10 kPa
Breathing device defined configurations	VL0	1 breathing type	LD	Pressure port 2 breathing device type	LD	Enclosure breathing device type	none	10 kPa	10 kPa
	VS1	re port 1 device ty	STD	Ire port 2 device ty	STD		STD	20 kPa	15 kPa
athing conf	VS2	Pressure p dev	STD	ssure p dev	STD STD	nclosu	LD	40 kPa	20 kPa
Bre	VL1	Pres	LD	Pres	LD	ш	LD	20 kPa	15 kPa

Rated characteristics:

Supply voltage up to:	240	V;
Supply current up to:	500	mA;
Maximum dissipated power:	6	W

Warning label

"WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT"

Routine tests

The equipment having a threated cover with cemented window (identified by the **W** letter, as indicated in **[f]** field of the key code), shall be submitted at the batch overpressure routine test, as prescribed at § 16.6 of the EN 60079-1 standard, at the pressure value of **1800 kPa** for at least 10 s, since the devices have passed the type overpressure test, carried out applying static method, at a pressure value equal to **3** times the reference pressure recorded.

The equipment having a blind threated cover (identified by the **B** letter, as indicated in **[f]** field of the key code), **are exempted** to the routine overpressure test, since the devices have passed the type overpressure test, carried out applying static method, at a pressure value equal to **4** times the reference pressure recorded.

The instruments listed in the [e1] field of the key code, that are the only suitable for use with a flammable process fluids, shall be submitted to the routine overpressure test, as prescribed in the § G.4.1 of the EN 60079-1 standard, at a pressure value of 60 kPa, for at least 2 min.

[16] Assessment Report n° EPT.20.REL.01/2013102

This EU-Type Examination Certificate is released after the positive result of the conformity assessment of the Council Directive 2014/34/EU and to harmonized technical standards listed in this certificate performed by the Notified Body Eurofins Product Testing Italy S.r.I., and reported in the Assessment Report above cited.



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Product Testing

[13] [14]	EU-TYPE EXAMIN	ANNEX ATION CERTIFICATE N. EPT 19 ATEX 3	3192 X	issue 1
[17]	Specific conditions of use			
	The flameproof joints are not in			
	Potential electrostatic charge r	isk –See instructions (applicable only when the device	is marked	for category 2D)
[18]	Essential Health and Safe	ty Requirements		
	Assured by compliance with ha	armonized standards listed in [9].		
[19]	Descriptive documents			
[]	The equipment objects of this modified without the explicit au	ed documents; they cannot t		
	Type of document	Document identification	Rev.	Date
	Drawing	AM005 (GUB 101 / GUB 101W)	04	2019/03/29
	**	AM006 (GUB 102 / GUB 102W)	04	2019/03/29
	"	AM007 (GUB 100 / GUB 100W)	04	2019/03/29
	66	AM008 (Extension for GUB 102)	03	2019/03/29
	66	AM009 (Flame arrestor 400 - STD)	05	2019/03/28
	"	AM050 (Flame arrestor series LD)	07	2019/03/29
	**	AM052 (GUB 102 / GUB 102W Steel)	02	2019/03/28
	**	AM053 (Extension for GUB 102 Steel)	01	2019/03/28
	"	AM054 (Threaded joints for GUB)	00	2019/03/08
	"	DM133 (Identification and certification tags)	03	2020/07/27
	Safety instructions	Safety note «Pressure and Differential Pressure switches, gauges and transmitters, COMHAS Series AT-10****»	01	2020/07/16
	Technical description document	TECHNICAL NOTE AT10****	01	2020/07/21
	Manufacturing Procedure	Procedura Sigillatura AT10****	00	2019/03/15



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issue 1

[20] Terms and conditions

The product liability rests with the Manufacturer, his representative or, in the absence of a representative, with the importer, in accordance with the General Product Safety Directive 2001/95/EC.

The following conditions may render this certificate invalid:

- changes in the design or construction of the product;
- changes or amendments to the Directive;
- changes or amendments in the standards which form the basis for documenting compliance with the essential requirements of the 2014/34/EU Directive.

[21] History

[13]

[14]

Issue 1 Editorial changes (the key code of product has been modified as required by the manufacturer).



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End of Certificate

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