

Translation

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

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**



(3) **Certificate Number** TÜV 20 ATEX 280898 X **issue:** 00

(4) for the product: Electropneumatic Positioner ARCASMART 826

(5) of the manufacturer: **ARCA Regler GmbH**

(6) Address: Kempener Str. 18
47918 Tönisvorst
Germany

Order number: 8003024650

Date of issue: 2021-04-14

(7) The design of this product and any acceptable variation thereto are specified in the schedule to this EU-Type Examination Certificate and the documents therein referred to.

(8) The TÜV NORD CERT GmbH, Notified Body No. 0044, in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential ATEX Assessment Report No. 20 203 280898.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018
EN 60079-31:2014

EN IEC 60079-7:2015+A1:2018

EN 60079-11:2012

except in respect of those requirements listed at item 18 of the schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions for Use specified in the schedule to this certificate.

11) This EU-Type Examination Certificate relates only to the design, and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the product shall include the following:

See description of product.

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the notified body



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Excerpts or changes shall be allowed by the TÜV NORD CERT GmbH

(13) **SCHEDULE**

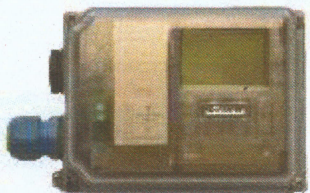
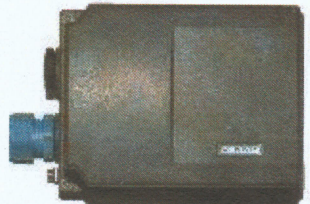
(14) **EU-Type Examination Certificate No. TÜV 20 ATEX 280898 X issue: 00**

(15) **Description of product:**

The electropneumatic positioner ARCASMART 826 is intended to regulate the valve or damper position in pneumatic actuators. It serves as a coupling assembly between electrical controllers or control devices and pneumatic actuators.

Type designation:

1	2	3	-	4	5	6	-	7	8	9	-	10		11
826	a	b	-	c	d	e	-	f	g	0	-	h	-	i

Illustration type of enclosure	
826 (f=K) Polycarbonate	826 (f=M) Aluminum
	

ARCASMART, type 826.ab-cde-fg0-h-i			
	Type of explosion protection Index (a)	Type of option Index (i)	
Enclosure material index f=			
K	X	-	or
M	X, S, D	-	or
Order Codes Index Z=	SE		

* = any character

826	E	2	-	0	0	0	-	M	1	0	-	G	-	KA
[1]	[2]	[3]	-	[4]	[5]	[6]	-	[7]	[8]	[9]	-	[10]	-	[11]

1. Series	
826	
2. Explosion protection	
E	not explosion proof
X	Ex i (IS)
S	Ex i (IS); Ex e (NI)
D	Ex i (IS); Ex e (NI); Ex t (DIP)
3. Basic device connection	
2	2-wire
4. Analogue output	
0	no analogue module
A	with analogue module
5. Binary output	
0	no binary module
B	with binary module
6. Communication	
0	without communication
H	with HART communication
7. Housing material /cover	
M	Anodised aluminium / anodised aluminium
K	Anodised aluminium / plastic
8. Pneumatics	
1	single-acting
2	double-acting
9. Position recording	
0	Standard (contactless)
10. Connecting thread electrical/pneumatic	
G	M20x1.5 / G 1/4
N	1/2" NPT / 1/4" NPT
M	M20x1.5 / 1/4" NPT
P	1/2" NPT / G 1/4
11. Options Z	
SE	Silencer, rust-proof stainless steel
ZD	Supply air restrictor
KA	Customised design

Marking:

With Index		
f=	a=	
K, M	X	II 2 G Ex ia IIC T4 Gb II 3 G Ex ic IIC T4 Gc
M	S	II 2 G Ex ia IIC T4 Gb II 3 G Ex ic IIC T4 Gc II 3 G Ex ec IIC T4 Gc
M	D	II 2 G Ex ia IIC T4 Gb II 3 G Ex ic IIC T4 Gc II 3 G Ex ec IIC T4 Gc II 2 D Ex tb IIIC T100°C Db

Electrical Data:

Analog Input (AI/HART),
control current 4 ... 20 mA
Terminals 6 (+) and 7 (-)

only for the connection to a certified intrinsically safe circuit in type of protection "Ex ia IIC" or "Ex ib IIC".

Maximum values: $U_i = 30 \text{ V}$
 $I_i = 100 \text{ mA}$
 $P_i = 750 \text{ mW}$
 $C_i = 6 \text{ nF}$
 $L_i = 221 \text{ } \mu\text{H}$

resp.

only for the connection to an intrinsically safe circuit in type of protection "Ex ic IIC".

Maximum values: $U_i = 30 \text{ V}$
 $I_i = 100 \text{ mA}$
 $C_i = 6 \text{ nF}$
 $L_i = 221 \text{ } \mu\text{H}$

resp.

in type of protection increased safety "Ex ec IIC".

Nominal voltage: $U_n \leq 30 \text{ V}$
Nominal current: $I_n \leq 100 \text{ mA}$

resp.

in type of protection dust ignition protection by enclosure "Ex tb IIIC".

Nominal voltage: $U_n \leq 30 \text{ V}$
Nominal current: $I_n \leq 100 \text{ mA}$

Schedule to EU-Type Examination Certificate No. TÜV 20 ATEX 280898 X

issue 00

Analog Output (AO),
control current 4 ... 20 mA
Terminals 61 (+) and 62 (-)

only for the connection to a certified intrinsically safe circuit in
type of protection "Ex ia IIC" or "Ex ib IIC".

Maximum values: $U_i = 30 \text{ V}$
 $I_i = 100 \text{ mA}$
 $P_i = 750 \text{ mW}$
 $C_i = 7 \text{ nF}$
 $L_i = 66 \text{ } \mu\text{H}$

resp.

only for the connection to an intrinsically safe circuit in type of
protection "Ex ic IIC".

Maximum values: $U_i = 30 \text{ V}$
 $I_i = 100 \text{ mA}$
 $C_i = 7 \text{ nF}$
 $L_i = 66 \text{ } \mu\text{H}$

resp.

in type of protection increased safety "Ex ec IIC".

Nominal voltage: $U_n \leq 30 \text{ V}$
Nominal current: $I_n \leq 100 \text{ mA}$

resp.

in type of protection dust ignition protection by enclosure
"Ex tb IIIC".

Nominal voltage: $U_n \leq 30 \text{ V}$
Nominal current: $I_n \leq 100 \text{ mA}$

Thermal data:

Permissible ambient temperature range:

ARCASMART, Typ 826.ab-cde-fg0-h-i with types of protection Ex ia/ic and Ex ec	
	Temperature class T4
with the data (f = K, M) and (a = X, S, D)	$-20^\circ\text{C} \leq T_a \leq +80^\circ\text{C}$

ARCASMART, Typ 826.ab-cde-fg0-h-i with type of protection Ex tb	
with the data (f = M) and (a = D)	$-20^\circ\text{C} \leq T_a \leq +80^\circ\text{C}$

(16) Drawings and documents are listed in the ATEX Assessment Report No. 20 203 280898

(17) **Specific Conditions for Use:**

The electropneumatic positioner ARCASMART 826 with polymeric lid (type 826.**-***-K**-*.*) shall be protected against the build-up of electrostatic charges.

The capacitance of the labels exceeds the allowed value of 3 pF.
Operating instructions must be observed.

(18) **Essential Health and Safety Requirements**

No additional ones.

- End of Certificate -