



**TYPE APPROVAL CERTIFICATE  
N. ELE021114CS**

This is to certify that the product below is found to be in compliance with the applicable requirements of the RINA type approval system.

<i>Description</i>	<b>Pressure transmitters</b>
<i>Type</i>	<b>8264 ; 8298</b>
<i>Applicant</i>	<b>Trafag AG Sensors &amp; Controls Industriestrasse 11 CH-8608 Bubikon Switzerland</b>
<i>Manufacturer</i>	<b>Trafag AG Sensors &amp; Controls Industriestrasse 11 CH-8608 Bubikon Switzerland</b>
<i>Testing Standards</i>	<b>Rules for the Classification of Ships – Part C _ Machinery, Systems and Fire protection. Ch. 3, Sect. 6, Table 1.</b>

Issued in **Genova** on **February 17, 2014**

This certificate is valid until **February 17, 2019**

**RINA Services S.p.A.**

*Valerio Bonanni*



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### 8264 PICOTRANS NPN main features:

Sensor:	Thin film on steel	
Measuring range:	0...2.5 to 0...400 bar	
Signal output:	4...20mA	
Measuring accuracy: (ordering n°25)	+/- 2 % FS typ.	TEB @ -25...+85°C
	+/- 0,5 % FS typ.	@ +25°C
	+/- 0.3 % FS typ.	NLH @+25°C (BSL through 0)
Voltage supply:	9-32 / 24Vdc (typ.)	
Pressure connections (female):	G 1/4", G 1/8", M10x1.0	
Sensor material:	1.4548 (AISI 630)	
Housing material / protection:	1.4542 (AISI 630)	IP 65 connector DIN 43650-A (exec.04)
	1.4301 (AISI 304)	IP 69K cable (exec. 78) length 1/3/5 m
Electrical plug (female):	EN175301-803-A	
O-Ring:	NBR 90° Shore	D 6.75 x 1.78
Vibration testing	15g (50...2000Hz) Exec. 04	
accessory 55 elbow connector female 90°		

#### Technical description

Data sheets n° H72313h (05/2010)

Drawings n° B62339a, B62356a, C13936c, C10751a, M91471

### 8298 EPN main features:

Sensor:	Thin film on steel	
Measuring range:	±70 mbar, ± 1 bar (customized)	
	0...2.5 to 0...2500 bar (standard)	
Signal output:	4...20mA , 0,5 ...4,5Vdc ratiometric	
Measuring accuracy: (ordering n° 25)	+/- 2.0 % FS typ.	TEB @ -25...+85°C
	+/- 0.5 % FS typ.	@ +25°C
	+/- 0.3 % FS typ.	NLH @+25°C (BSL through 0)
Voltage supply:	9-32 / 24Vdc (typ.) or 5Vdc	
Pressure connections (male)	G 1/4", R 1/4 " o-ring, M14x1.5 or M18x1.5 conical seal	
Sensor material:	1.4548 (AISI 630)	
Housing material / protection	1.4542 (AISI 630)	IP 65 connector DIN 43650-A. (exec. 04);
	1.4301 (AISI 304)	IP 69K connector DIN72585 (exec.25) IP 69K cable (exec. 78)
Electrical plug (female):	EN175301-803-A	
O- ring:	FKM 70° Shore	D 13.1 x 1.6
Working temperature	125°C ambient	135°C process side
Vibration testing	10g (50...2000 Hz) exec. 04	

#### Technical description:

Data sheets: H72312k (11/2013)

Drawings n° B62200a, B62250a, C10751a, C12253e, M91458b, M91469b,

#### Test Reports:

*Trafag* : V-0605 GL qualification, V-0554 (19/07/05) , V-07109 (07/03/2008), V-08055 (01/04/2008),  
V-08101 (04/08/2008), V-08102 (13/08/2008), V-08113 (27/08/2008)

*EMC Test Center Zurich*: n° EMCKP689 index A (10/01/2006) , EMV Bericht 8298RATIO.doc (17/10/2006)

*Mettler - Toledo / ENL Testing lab* n° 20051228.A02.03 (2005/12/19) ; n° 20061027.A05.01 (2006/ 04/10)

*Electrosuisse*: 07-1K-0031(09/02/2007) , 08-1K-0248.01 (27/08/2008)

*Spektra*: 80430.A.1.1 (29/07/2008) , 80430.B.1.1 (29/07/2008), 80430.C.1.1 (29/07/2008),