

# TYPE APPROVAL CERTIFICATE

**This is to certify:**

**That the Pressure Transmitter**

with type designation(s)  
**8264 - Picotrans NPN, 8298 - Pressure Transmitter EPN/EPNCR**

Issued to  
**Trafag AG**  
**Bubikon, Switzerland**

is found to comply with  
**Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards**

**Application :**

**Location classes:**

<b>Temperature</b>	<b>D</b>
<b>Humidity</b>	<b>B</b>
<b>Vibration</b>	<b>B</b>
<b>EMC</b>	<b>B</b>
<b>Enclosure</b>	<b>B</b>

This Certificate is valid until **2018-12-31**.

Issued at **Høvik** on **2014-08-29**

DNV GL local station: **Augsburg**

Approval Engineer: **Nils Jarem**



for **DNV GL**  
 Digitally Signed By: Sneen, Ståle  
 Location: DNV GL Høvik, Norway  
 Signing Date: 2014-08-29, on behalf of

**Odd Magne Nesvåg**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed. If any person suffers loss or damage which is proven to have been caused by any negligent act or omission of the Society, then the Society shall pay compensation to such person for his proven direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question. The maximum compensation shall never exceed USD 2 million. In this provision the "Society" shall mean DNV GL AS as well as all its direct and indirect owners, affiliates, subsidiaries, directors, officers, employees, agents and any other person or entity acting on behalf of DNV GL AS.

Certificate No: **A-13905**  
 File No: **892.10**  
 Job Id: **262.1-001727-4**

### Product description

Pressure Transmitter Series 8264 – Picotrans NPN and 8298 – Pressure Transmitter EPN/EPNCR, covering the following combinations:

Type	Range	Sensor type	Pressure connection	Execution	Output	Accessories
8264	74 to 85 ** 74 ** 85	23 25	10 17 18	04 78	19	40 * 41 43 45 55 57 58 74 V3 1M 3M 5M
8298	74 to 86 89 to 91	23 25	17 19 28 29	04 78	19 23	40 43 45 58 92 1M 3M 5M

- \* Only available for pressure connections 10 and 18.
- \*\* Only available for pressure connection 10.

### Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

### Type Approval documentation

Initial Type Approval 2006, extended 2010:

Documentation	Reference numbers
Data sheet:	H72313k, H72312l
Instructions:	H73311a
Assembly Drawings:	Type 8264: B62200c, B62339d, C10751b, C12398f, C12880i, C13936c, M91471f; Type 8298: B62120m, B62300d, B62420i, B62440c, B63590d, C10751a, C12253e, C12398f, C12880i, M91458e, M91469c
Test Reports:	Trafag V-0605 (2006-04-12), V-0554 (2005-07-19), V-0647 (2006-05-17), V-07109 (2008-03-07), V-08055 (2008-04-01), V-08101 (2008-08-04), V-08102 (2008-08-13), V-08113 (2008-08-27); EMC-Testcenter EMCPK689 Index A; Mettler-Toledo 20051228.A02.03, 20061027.A05.01; Electrosuisse 08-IK-0248.01 dated 2008-08-27 (IP enclosure test); Trafag protokoll dated 2008-08-11 (Hydrostatic pressure test); Trafag EMV-Test 8298 ratiometrisch dated 2006-10-17 (EMC tests acc. to MTU spec. M91180); SPEKTRA 80430.A.1.1 (2008-07-29), 80430.B.1.1 (2008-07-29), 80430.C.1.1 (2008-07-29).