


## Type Approval Certificate Extension

This is to certify that Certificate No. 06/20052 (E1) for the undernoted products is amended and renumbered as shown.

This certificate is issued to:

<b>PRODUCER</b>	Trafag AG
<b>PLACE OF PRODUCTION</b>	Emil-Staub-Strasse 1 8708 Männedorf Switzerland
<b>DESCRIPTION</b>	Pressure transmitter
<b>TYPES</b>	8264.①.②③.④.19.⑤ PICOTRANS NPN ① = Pressure range: 75, 76, 77, 78, 79, 80, 81, 82, 83, 85, 74, 84 (0...2.5 to 0...400 bar) xx = Customized ranges on request ② = Sensor relative pressure, accuracy: 23, 25 (0.3% or 0.5%) ③ = Pressure connection: 10, 18, 17 (G1/4", G1/8" or M10x1.0 – female) ④ = Execution: 04 (male electrical plug EN175301-803-A, Mat.: PA) 78 (cable with shield 4 x 0.5mm <sup>2</sup> ) ⑤ = Accessories: 40, 41, 43, 45, 55, 57, 58, 74, 92, V3, 1M, 3M, 5M (for details see data sheet)  8298. ①.②③.④.⑤.⑥ EPN ① = Pressure range: 75, 76, 77, 78, 79, 80, 81, 82, 83, 85, 74, 84, 86, 89, 90, 91 (0...2.5 to 0...2500 bar) xx = Customized ranges on request ② = Sensor relative pressure, accuracy: 23, 25 (0.3% or 0.5%) ③ = Pressure connection: 11, 17, 19 (for ranges ≤600 bar: G1/2"-male, G1/4" or R1/4" - male) 28, 29 (for ranges >600 bar: M14x1.5 or M18x1.5 – male)
<b>Certificate No.</b>	06/20052 (E2)
<b>Issue Date</b>	19 December 2011
<b>Expiry Date</b>	18 December 2016
<b>Sheet</b>	1 of 3

  
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④ = Execution:

04 (male electrical plug EN175301-803-A, Mat.: PA)

78 (cable with shield 4 x 0.5 mm<sup>2</sup>)

25 (male electrical plug DIN72585 Code 1, Mat.: PBT, only with output 23)

⑤ = Output:

19 (4...20 mA; U<sub>Supply</sub> 9...32V DC)

23 (0.5...4.5V DC; U<sub>Supply</sub> 5V DC ± 0.25V DC ratiometric; only execution 25)

⑥ = Accessories: 40, 43, 45, 58, 92, 1M, 3M, 5M (for details see data sheet)

## TECHNICAL DATA

### 8264 type:

Sensor: Thin film on steel

Signal output: 4...20 mA

Degree of protection: IP65 (execution 04); IP69K (execution 78)

### 8298 type:

Sensor: Thin film on steel

Signal output: 4...20 mA or 0.5...4.5V DC (ratiometric)

Degree of protection: IP65 (execution 04); IP69K (execution 25 and 78)

## APPLICATION

Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2, ENV3 and ENV4 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – 2002.

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Sheet	2 of 3



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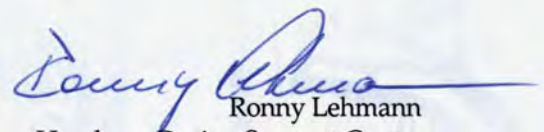
<b>ADDITIONAL TESTS</b>	Dry heat (+125°C / 16hrs) for Series 8298 Dry heat (+100°C / 16 hrs) for Series 8264 Low temperature (-40°C / 16hrs) Vibration test: 10g / 50...2000Hz for 8264 (Execution 04/ accessories 55) 15g / 50...2000Hz for 8264 (Execution 04) 15g rms for 8264 (Execution 78) 10g / 50...2000Hz for 8298 (Execution 04) 15g rms for 8298 (Execution 25) 20g rms for 8298 (Execution 78) Enclosure IP 65 and IP69K
<b>DESIGN CODE</b>	Manufacturer's specification
<b>OTHER CONDITIONS</b>	Limitations of measuring accuracy and accessories description are to be obtained from the manufacturer's data sheet.

*"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."*

*The attached Design Appraisal Document No. ETS 25705-11 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

**All other details remain as the previous Certificate No. 06/20052 (E1) to which this extension should be attached.**

<b>Certificate No.</b>	06/20052 (E2)
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<b>Sheet</b>	3 of 3

  
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Part 3  
Switches – Transmitters – Transducer

Producer/Licence No.	Item Description	Technical Details	Category/Additional Tests	Remarks	Cert. No.
<p>Trafig AG Emil-Staub-Strasse 1 8708 Männedorf Switzerland</p>	<p>Pressure transmitter</p> <p>Type: 8264.①.②③.④.19.⑤ PICOTRANS NPN</p> <p>① Pressure range = 75, 76, 77, 78, 79, 80, 81, 82, 83, 85, 74, 84 xx = customized ranges on request</p> <p>② Relative pressure, accuracy = 23 (0.3%) 25 (0.5%)</p> <p>③ Pressure connection = 10, 18, 17 (G1/4", G1/8" or M10x1.0, female)</p> <p>④ Execution = 04 (male electrical plug EN175301-803-A, Mat: PA) 78 (cable with shield 4 x 0.5mm<sup>2</sup>)</p> <p>⑤ Accessories = 40, 41, 43, 45, 55, 57, 58, 74, 92, V3, 1M, 3M, 5M</p> <p>Type: 8298. ①.②③.④.⑤.⑥ EPN</p> <p>① Pressure range = 75, 76, 77, 78, 79, 80, 81, 82, 83, 85, 74, 84, 86, 89, 90,91 xx = customized ranges on request</p> <p>② Relative pressure, accuracy = 23 (0.3%) 25 (0.5%)</p> <p>③ Pressure connection = 11, 17, 19 (for ranges ≤600 bar: G1/2"-male, G1/4" or R1/4", male) 28, 29 (for ranges &gt;600 bar: M14x1.5 or M18x1.5, male)</p> <p>④ Execution = 04 (male electrical plug EN175301-803-A, Mat: PA) 78 (cable with shield 4 x 0.5mm<sup>2</sup>) 25 (male electrical plug DIN 72585 Code 1, Mat.: PBT, only with output 23)</p> <p>⑤ Output = 19 (4...20 mA, U<sub>Supply</sub> 9...32V DC) 23 (0.5...4.5V DC; U<sub>Supply</sub> 5V DC± 0.25V DC ratiometric, only execution 25)</p> <p>⑥ Accessories = 40, 43, 45, 58, 92, 1M, 3M, 5M</p>	<p>Sensor: Thin film on steel</p> <p>Signal output: 4...20 mA (8264 or 8298) 0.5...4.5V DC ratiometric (8298)</p> <p>Supply voltage: 24 (9...32)V DC (8264 or 8298) 5V DC ratiometric (8298)</p> <p>Measuring range: 0...2.5 to 0...400 bar (8264) 0...2.5 to 0...2500 bar (8298)</p>	<p>ENV1, ENV2, ENV3, ENV4 (2002)</p> <p>Dry heat (+125°C / 16hrs) for Series 8298 Dry heat (+100°C/ 16hrs) for Series 8264 Low temperature (-40°C / 16hrs) Vibration test: 10g / 50...2000Hz for 8264 (Execution 04/ accessories 55); 15g / 50...2000Hz for 8264 (Execution 04); 15g rms for 8264 (Execution 78); 10g / 50...2000Hz for 8298 (Execution 04); 15g rms for 8298 (Execution 25); 20g rms for 8298 (Execution 78) Enclosure IP 65 and IP69K</p>	<p>Expires: 18 December 2016</p> <p>Limitations of measuring accuracy and accessories description are to be obtained from the manufacturer's data sheet.</p>	<p>06/20052 (E2)</p>

EC 19.12.2011