PRIGNITZ **MIKROSYSTEMTECHNIK**

PRIGNITZ Mikrosystemtechnik is a global manufacturer of sensors from Germany. We develop, manufacture, and sell pressure sensors, temperature transmitters, and level probes with very high added value "from chip to calibrated transmitter". Based on our R&D, we have created a series of unique and rugged pressure and temperature transducers for Hazardous areas. In addition to its rugged construction and a good price- to- performance ratio our products will be the solution for pressure measurement for a very wide variety of applications.



Examples of products

1. INTRINSICALLY SAFE TRANSDUCERS:

- STANDARD PRESSURE TRANSDUCERS: PMP-S111-EXI, PMP-S122-EXI, PMP-S131-EXI
- HIGH ACCURACY PRESSURE TRANSDUCER: PMP-C111-EXI, PMP-C122-EXI, PMP-C131-EXI

ADVANTAGES:

- Hi- strength stainless steel construction no silicone oil, no internal O-Rings (above 4 bar)
- Wide operating temperature range
- Low static and thermal errors
- Compatible with a wide range of liquids and gases
- High grade of EMI/RFI protection grade

SPECIAL FEATURE FOR PMP-C111-Exi, PMP-C122-Exi, PMP-C131-Exi:

- Better accuracy: ≤ 0,25% FS0
- Signal downscaling on request by PC-software







With flange plug: II 1G Ex ia IIC T4 Ga

metallic connectors

for other plugs and cables:

Other plags: II 1G Ex ia IIB T4 Ga or II 2G Ex ia IIC T4 Gb

SUITABLE HAZARDOUS AREAS AND CONDITIONS:

CAN: Ex iA IIC T4 Ga IS Class I, Division 1, Groups A, B, C, D T4

CAN: Ex iA IIC T4 Gb, IS Class I, Division 1, Groups A, B, C, D T4

US: Class I, Zone O AEx ia IIC T4 Ga, Class I, Division 1, Groups A, B, C, D T4

US: Class I, Zone 1 AEx ia IIC T4 Gb, Class I, Division 1, Groups A, B, C, D T4

Class 2258 04 PROCESS CONTROL EQUIPMENT (for hazardous Canadian locations)

Class 2258 84 PROCESS CONTROL EQUIPMENT (for hazardous locations-certified to US standards)



HYDROSTATIC LEVEL PRESSURE TRANSDUCERS: PML-S111-EXI.PML-S131-EXI

ADVANTAGES:

- Wide variety of level ranges and operating temperature range
- Low static and thermal errors
- Compatible with a wide range of liquids and gases
- High grade of EMI/RFI protection grade

SPECIAL FEATURE FOR PML-C100-EXI

High signal accuracy ≤ 0,25% FS0

SUITABLE HAZARDOUS AREAS AND CONDITIONS:

Class I, Division 1, Groups A, B,C,D T4. Class I, Zone 1 AEx ia IIC T4 Gb Class I, Division 1, Groups C and D T4. Class I, Zone O AEx ia IIB T4 Ga Class I, Division 1, Groups A,B,C,D T4. Ex iA IIC T4 Gb. Class I, Division 1, Groups C and D T4 Ex iA IICB T4 Ga

Class 2258 04 PROCESS CONTROL EQUIPMENT (for hazardous Canadian locations) Class 2258 84 PROCESS CONTROL EQUIPMENT (for hazardous locations - certified to US standards)



TEMPERATURE TRANSDUCERS: PMT-S111-EXI, PMT-S122-EXI

ADVANTAGES:

- Hi-strength stainless steel construction
- Wide operating measuring range: -40 °C ... 200 °C (-40 °F ... 392 °F)
- Low static and thermal errors
- Compatible with a wide range of liquids and gases
- High grade of EMI/RFI protection grade
- Several electrical connection available

SUITABLE HAZARDOUS AREAS AND CONDITIONS:

 metallic connectors US: Class I, Zone O AEx ia IIC T4 Ga, Class I, Division 1, Groups A, B, C, D T4 CAN: Ex iA IIC T4 Ga IS Class I, Division 1, Groups A, B, C, D T4

for other plugs and cables:

US: Class I, Zone 1 AEx ia IIC T4 Gb, Class I, Division 1, Groups A, B, C, D T4 CAN: Ex iA IIC T4 Gb, IS Class I, Division 1, Groups A, B, C, D T4

Class 2258 04 PROCESS CONTROL EQUIPMENT (for hazardous Canadian locations) Class 2258 84 PROCESS CONTROL EQUIPMENT (for hazardous locations- certified to US standards)









ADVANTAGES:

- Hi-strength stainless steel construction
- No internal O-Rings, no silicon oil
- Wide operating temperature range
- Low static and thermal errors
- Compatible with a wide range of liquids and gases
- High grade of EMI/RFI protection grade

(F)®

SUITABLE HAZARDOUS AREAS AND CONDITIONS:

US: Class I / Zone 2 A ExnA II c T4 Gc CAN: Class I / Division 2; Groups A, B, C, D T4 Ex nA IIC T4 Gc (T_a = -40 °C ... 80 °C)

3. FLAMEPROOF ENCLOSURE PRESSURE TRANSDUCERS

STANDARD PRESSURE TRANSDUCER: PMP-S122.04-EXD

HIGH ACCURACY PRESSURE TRANSDUCER: PMP-C122.04-EXD



ADVANTAGES:

- Single piece construction of the sensing element with stainless steel
- Measuring cell is free from welded seams
- No 0-Rings, high overload and burst pressure capability
- Fast startup time (< 5 ms)
- Low power consumption: (< 10 mA) by sensors with voltage output
- Wide variety pressure ranges and operating temperature range
- Low static and thermal errors
- Compatible with a wide range of liquids and gases
- Factory sealed according to FM3615, no additional conduit seal required

SPECIAL FEATURE FOR PMP-C122.04 -EXD:

- High signal accuracy ≤ 0,25% FS0
- Signal downscaling on request by PC-software
- · Zero-setting by tool or on request by PC-software
- Signal filtering on request by PC- software



SUITABLE HAZARDOUS AREAS AND CONDITIONS:

Class | Division 1 Groups A, B, C, D explosion proof Class || Division 1 Groups E, F, G ignition proof UL/FM Class | Zone 1 Group IIC Ex db ||C T5 Gb, Zone 21 Aex tb ||IIC T 100 °C CSA Master Contract file: 267726 CSA Report file: 8015 0806



When creating these transmitter, we used a new type of two-chip technology (P2P Technology - our patented development), which enables the highest demands on robustness and performance such as stability, vibration, and shock resistance.

APPLICATION:



MONITORING OF TANKS LEVEL



OIL & GAS EQUIPMENT



MARINE & OFFSHORE



INDUSTRIAL EQUIPMENT



WATER MANAGEMENT



REMOTE PROCESS CONTROL



DRILLING & MINING



CHEMICAL INDUSTRY



HYDROGEN INDUSTRY



REFRIGERATION

