

Your Global Automation Partner

# TURCK

## Pressure Transmitter PT1100 | PT2100



### For mobile equipment

In order to provide solutions for use in mobile equipment, Turck is expanding its portfolio of pressure sensors with the introduction of PT1100/2100 pressure transmitters. This includes mining, forestry, agricultural and building machinery.

Compared to conventional machine building, the field of mobile equipment has more demanding requirements, particularly with regard to resistance to overpressure, vibration and shock, as well as increased EMC performance. The new pressure sensors of the PT1100/2100 series were specially optimized for this and are therefore a robust solution for one of the sensor types most frequently used in mobile equipment.

The PT1100/2100 pressure transmitters are available with protection to IP67 or IP69K.

The compact design meets the requirements for shock and vibration resistance in accordance with ISO 16750 road vehicle standard. Temperature fluctuations also only have a minimum effect on the measuring accuracy. Besides the M12 plug connectors, the PT1100/2100 series offer for the electrical connection sector-specific solutions such as AMP Superseal 1.5 or Deutsch DT04-3P. The sensors operate in a wide power supply range from 7.5 V to 33 V board voltage.

With a test level of up to 100 V/m the PT1100/2100 series guarantees optimum EMC performance, and thus fulfills numerous mobile equipment standards.

### Your benefits

- Compact and robust design
- High operational reliability
- High shock and vibration resistance acc. to vehicle standard ISO 16750
- Highest flexibility
- Easy mounting

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The following standards are met

- ISO13766 (earth-moving machinery)
- DIN EN 13309 (construction machinery)
- DIN ISO 14982 (forestry and agriculture)
- ECE R10 (vehicle standard)
- 2004/104/EG (vehicle standard)
  - ISO 11452-2, HF (Field), 100 V/m (200...2000 MHz)
- ISO 11452-4, HF (BCI), 100 mA (20...400 MHz)
- ISO 10605, ESD, ±15 kV contact, ±15 kV air
- ISO 7637-2 3), pulses 1, 2a, 2b, 3a, 3b (test level 4)
- ISO 16750-2, load dump, 155 V (1 Ω, 300 ms), 50 g, 11 ms, half sine curve, 1000x/axis, test VI (12 g, sinusoidal 18 g random vibration)

The sensors are suitable for on-board power supply of 12 V or 24 V. A wide supply voltage range also allows fluctuations in the on-board voltage to be compensated.

Even high pressure peaks do not damage the sensor. Along with the standard M12 connectors, the PT1100/2100 series also offers a number of connection variants established in mobile equipment for electrical connection.

- Protection classes IP67 and IP69K
- Measuring range PT1100 with ceramic measuring cell: -1...60 bar
- Measuring range PT2100 with metal measuring cell: 40...600 bar

Electrical Connection



M12 x 1 (IP69K)



Kostal SLK 2.8 A-coding (IP69K)



AMP-JPT (IP67)

Electrical Connection



AMP Superseal 1.5 (IP67)



Deutsch DT04-3P (IP69K)



Metri Pack 150 P2S Series (IP67)

