

Piezoelectric Pressure Transducer Type CP 235

FEATURES

- Acceleration compensated
- Designed for use in gas turbines
- ATEX and cCSAus certified
- High reliability
- Wide temperature range
-55°C (-67°F) to 520°C (968°F)
- Frequency response
2 Hz to 10 000 Hz ± 5%
- High sensitivity
Min. 750 pC/bar (52 pC/psi)
- Weight
Transducer head: 50 g
Integral MI cable : 140g/m



DESCRIPTION

The use of man-made piezoelectric material in the CP 235 dynamic pressure transducer makes it an extremely stable and reliable device.

The transducer is applicable to either long-term monitoring or development testing. It has been specially designed to minimise sensitivity to acceleration.

It is fitted with an integral mineral insulated cable (twin conductors) which is terminated with a high-temperature connector from Vibro-Meter.

Capacitance

- *Transducer* : 650 pF nominal pin/pin
10 pF nominal pin/ground (asymmetry <1 pF typ.)

- *Integral cable* : 270 pF/m nominal between conductors
210 pF/m nominal cond./ground

Internal insulation resistance

: Min. $10^9 \Omega$ ($5 \times 10^4 \Omega$ at 520°C)

Mounting torque *

: Nominally 5.5 Nm (corresponding to qualification of product)
Maximum value of 10 Nm

* A hole ($\varnothing 1$) is provided for locking wire - see drawing

ENVIRONMENTAL

Temperature range : -55°C to $+520^\circ\text{C}$ (continuous operation)

Shock acceleration : < 1000 g peak (half sine 1 ms) along sensitive axis

Corrosion, humidity : Inconel 600, hermetically welded

Use in explosive atmospheres

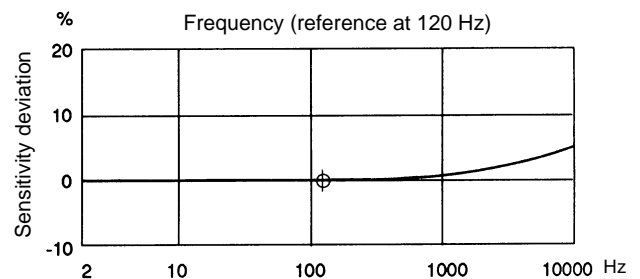
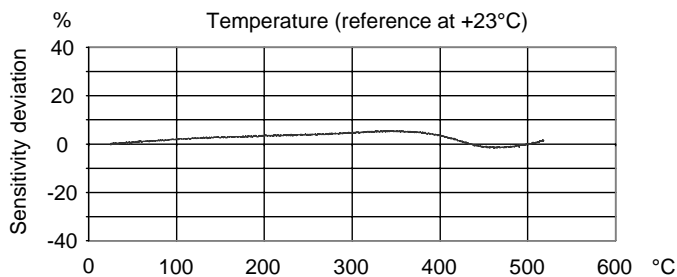
- *EC type examination certificate (see copy)* : LCIE 02 ATEX 6105 X
II 2 G (Zone 1, 2) EEx ib IIC T6 to T1



For specific parameters of the mode of protection concerned and special conditions for safe use, please refer to the "EC type examination certificate" that is available from Vibro-Meter SA on demand.

- *cCSAus standard (see copy)* : Certificate No. 1636189, Class I, Div. 1, Groups A, B, C, D

TYPICAL RESPONSE



ORDERING INFORMATION

To order please specify :

Type	Designation	Ordering Number
CP 235	Piezoelectric Pressure Transducer	143-235- 0XX 000-
		011 Cable length 2 m
		021 Cable length 5 m



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Sales offices

Vibro-Meter has offices in more than 30 countries. For a complete list, please visit our website.

Your local agent

Head office

Vibro-Meter SA
Rte de Moncor 4
P.O. Box
CH-1701 Fribourg
Switzerland

Tel: +41 26 407 11 11
Fax: +41 26 407 13 01

www.vibro-meter.com

