



TECHNICAL INFORMATION SHEET: NET-3X-17 Pellistor Gas Sensing Heads



General Description

The NET-3X-17 Pellistor Gas sensor head is a stainless steel flameproof gas sensor enclosure fitted with a matched pair catalytic flammable gas sensor (pellistor) type NP-17, for use as a complete field device operating as a part of a fixed flammable gas detection system.

The head consists of a two-piece stainless steel flameproof enclosure: The lower part contains the stainless steel sinter filter which allows the entry of the atmosphere being detected; the upper part, or main body, houses the matched pellistor pair and a plastic insert holder assuring its optimum position for measurement.

The collapsable two-piece design of the NET-3X-17 allows the internal sensors to be replaced in the field.

The enclosure is fitted with an external M46x1,5 thread at the front end to allow easy fitting of accessories.

A choice of four standard rear mounting threads is offered (x = thread code).

**NET-3X-17 IS ATEX APPROVED:
CESI 01 ATEX 066 U**

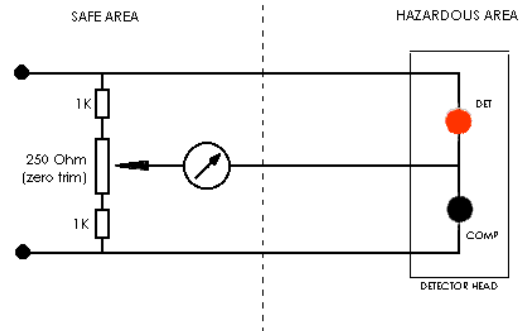


N.E.T. has a policy of continuous development and improvement of its products. As such the specification for the device outlined in the data sheet may be changed without notice.

Specifications

Recommended Voltage:	2.0V +/- 0.1V
Current Drawn:	175mA +/- 20mA
Zero Offset:	0mV +/- 25mV
Minimum Sensitivity:	12mV/% CH4/Air
Range:	0-100% LEL
Accuracy:	+/- 1%LEL(CH ₄)
Maximum Long Term Drift:	
Span:	< +/- 1% LEL/Month
Zero:	< +/- 1/2 mV/Month
Response Time:	T ₅₀ : 10 sec T ₉₀ : 30 sec

Recommended Circuit:



Note: The value of the balancing resistors is arbitrary, since the function of R1 is to balance the bridge. 1KΩ is suggested.

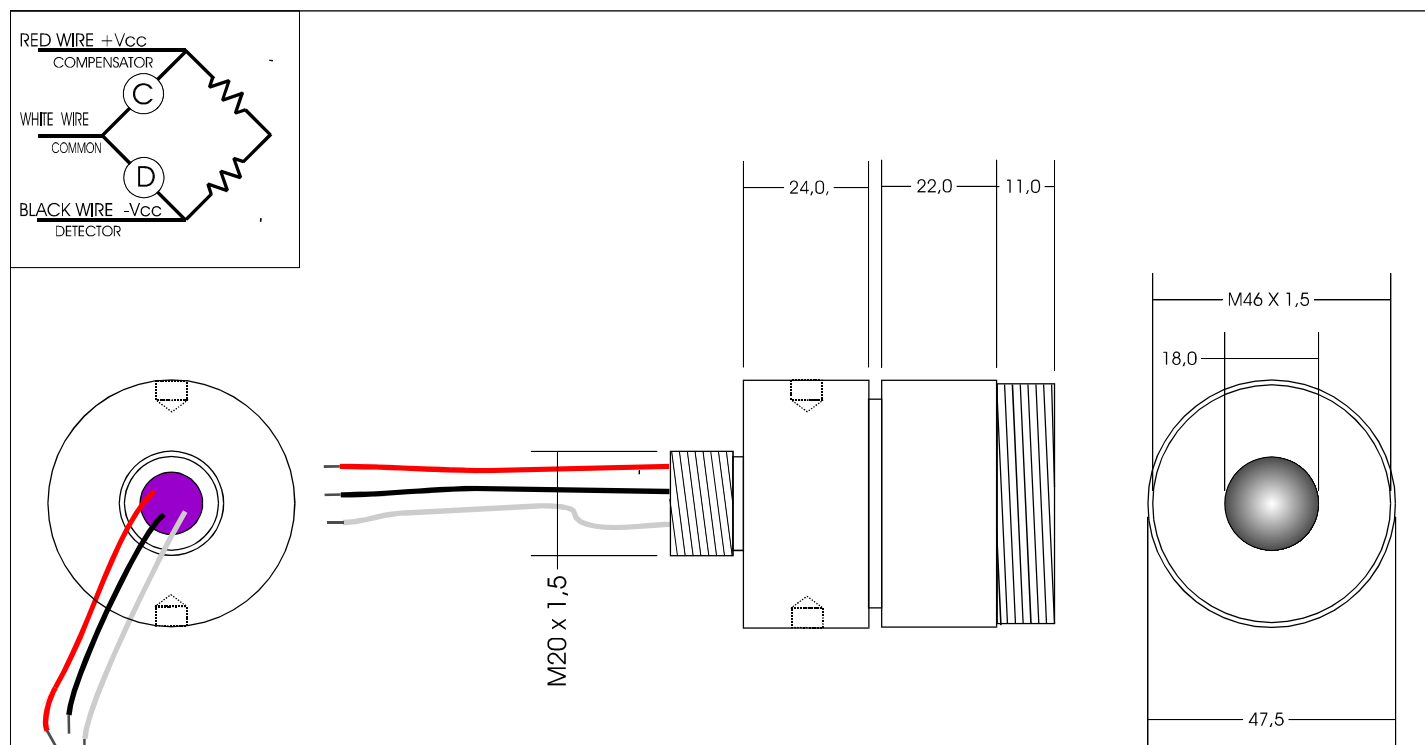
Temperature Range:	-20°C to +70°C
Temperature Drift:	(-20°C to +70°C)
Zero:	< +/- 5%LEL
Humidity:	0-100%RH, non-condensing
Humidity Response:	+/- 2%LEL
Linearity:	Effectively Linear to 60%LEL

Test data on drift, poisoning, temperature performance, linearity and other performance data relating to the NP-17 pellistor can be found in the Characterisation Document.

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Dimensional Drawing:



Cable long 200 mm

All dimension in mm.

N.E.T. s.r.l.

Model. n. **NET34**

Rev. **1**

Scale : **1 : 1**

NET 34	BODY 3	M20 THREAD
NET 35	BODY 3	M25 THREAD

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