

# ETP21H2 Temperature sensor for hydrogen applications



Eurosensor

- High quality stainless steel alloy
- For hydrogen applications
- Compact and robust
- Long life and high performance



The **ETP21H2** was specially designed for applications where hydrogen powered processes and other aggressive, pressurised gas or liquid media requires accurate and reliable temperature measurement. The compact design is very robust and offers high performance thanks to its high quality stainless steel alloy housing. The sensor withstands pressures of at least 160 bar. Higher pressures possible on request.

The high quality electronics ensures reliable conditioning; the measurement is carried out via a PT100 element. The **ETP21H2** is ideally suited for use in test rigs and systems.

## Specifications

Performance	
Accuracy	< +/- 1.0 % at RT
Environment	
Temperature	-40° C to +125° C
Shock	1000 g, 11 msec., 1/2 Sine
Vibration	16 g peak, 20 to 2000 Hz
Sealing	IP67
max. operating pressure	M10, 160 bar static

Elektronics	
Output → supply	4 - 20 mA → 10-32 VDC 0.5 - 4.5 V → 5 VDC, ratiometric
Current consumption	< 7.5 mA
Short circuit protection	Yes
Reverse voltage protection	Yes
Mechanics	
Housing	316L stainless steel
Process connections	see select table
Electrical connection	see select table
Weight	approx. 30 g

## Ordering information

(Please use the characters in the chart below to construct your product code.)

Standard model: ETP21H2-M10-(-40/100)-5-C

Sample Code: **ETP21H2 - M10 - -40/100 - 5 -A**

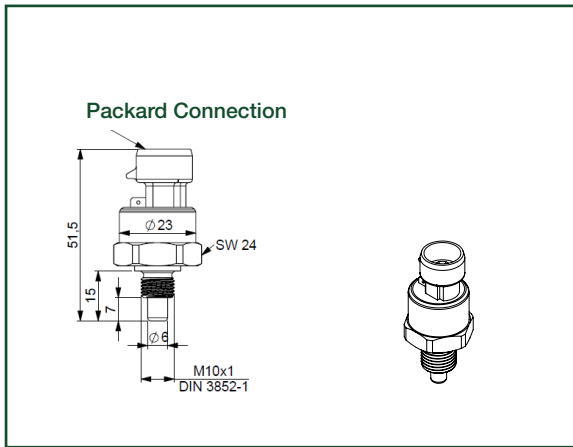
Series	Process connection	Temperature Range	Output Signal	Electr. interface
ETP21H2	M10 - M10x1 Male	-40... +100° C	2 = 4...20 mA 5 = 0.5...4.5 V ratiometric	A - 600 mm cable C - Connector - Packard Metripack F - M12x1 Round connector

Custom options available on request

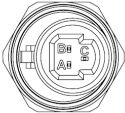

The ETP21H2 series is backed by a 1 year warranty. The purchaser is responsible for compatibility of the media, functional and correct installation of the transmitter.



## Dimensions and connections



### Type

	Connector - Packard Metripack	<b>Output</b>	<b>PIN A</b>	<b>PIN B</b>	<b>PIN C</b>	
		0,5 - 4,5V	- Supply	+ Supply	+ Output	
	M12x1 Round connector	<b>Output</b>	<b>PIN 1</b>	<b>PIN 2</b>	<b>PIN 3</b>	<b>PIN 4</b>
		0,5 - 4,5V	+ Supply	N/A	- Supply	+ Output
cable		<b>Output</b>	<b>red</b>	<b>black</b>	<b>white</b>	
		0,5 - 4,5V	+ Supply	- Supply	+ Output	
		4..20mA	+ Supply	- Current output	N/A	

# ALCYON

ÉLECTRONIQUE

RD 11 – BP20 – 78650 Beynes – France

Tel : +33 (0) 134 947 700

[info@alcyonelectronique.fr](mailto:info@alcyonelectronique.fr)

Fax : +33 (0) 134 875 340

[www.alcyonelectronique.fr](http://www.alcyonelectronique.fr)