

CTS-Family (Compact temperature sensors)

PMT-C111, PMT-C112

Stainless steel, safe temperature sensors with a single temperature sensing element and outputs in Ohm (PT100).

These temperature sensors have a more compact design.

They are suitable for all temperature ranges between -50 and 150°C for general industrial applications.

MAIN FEATURE

- Hi- strength stainless steel construction
- Wide operating measuring range: -50 °C ... 150 °C (-58 °F ... 302 °F)
- Material: stainless steel



- Low static and thermal errors
- Compatible with a wide range of liquids and gases
- Several electrical connection available

APPLICATION



OIL PLATFORMS



IL & GAS EQUIPMENT



POWER STATIONS



AUTOMOTIVE INDUSTRY

REMOTE PROCESS CONTROL

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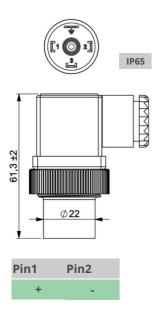
TECHNICAL SPECIFICATIONS

PERFORMANCE CHARACTERISTICS			
Overall accuracy	+/- (0,3K+0,005 x /t/) according to DIN EN 60751		
Stability (1 year)	+/- 0,01 % full scale (typical)		
Max. operating pressure	static 160 bar		
Media temperature range	-50 °C 150 °C (-58 °F 302 °F)		
Measuring element	1 x PT100, class B		
ENVIRONMENTAL DATA			
Ambient temperatur range	-50 °C 150 °C (-58 °F 302 °F)		
Storage temperature range	-50 °C 150 °C (-58 °F 302 °F)		
Humidity	0 100 % r. h., non condensing		
Shock protection	EN/IEC 60068-2-32 (1 m free fall)		
Vibration	20 g / 3 axes to EN/IEC 60068-2-6		
Protection class	depending on electrical connection		
Wetted parts	stainless steel		
ELECTRICAL DATA			
Output signal	In Ohm		
Measuring current	recommended: 1 mA, max: 7 mA		
PT100 configuration	2 wires		
CONNECTION VERSIONS			
Electrical connection*	EN 175 301-803-A /-C; M12x1 (S763-4); Deutsch DT04-3P; Packard Metri-Pack; cable outlet		
Process connections*	G1/4 Form E, 1/4"-18NPT, 7/16"-20 UNF, 9/16"-18 UNF		
Temperature tip	stainless steel tip with diameter 6 mm (0.24") 10 mm 500 mm (0.4" 1.64 ft)		
OUTLINE DIMENSIONS			
Over lenght:	from 20 till 150 mm		

*other on request

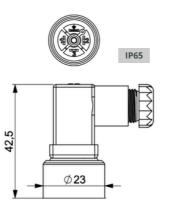
ELECTRICAL CONNECTION

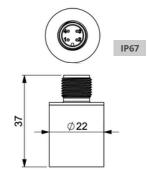
EN 175 301-803-A



EN 175 301-803-C

M12x1 (S763-4)

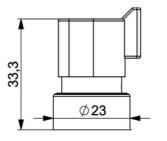


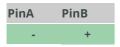


Pin1	Pin3
+	-

Deutsch DT04-3P







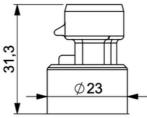
Packard Metri-Pack

Pin2

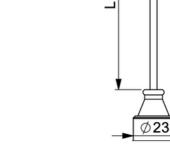
Pin1

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Red	Black
+	

PinB

+

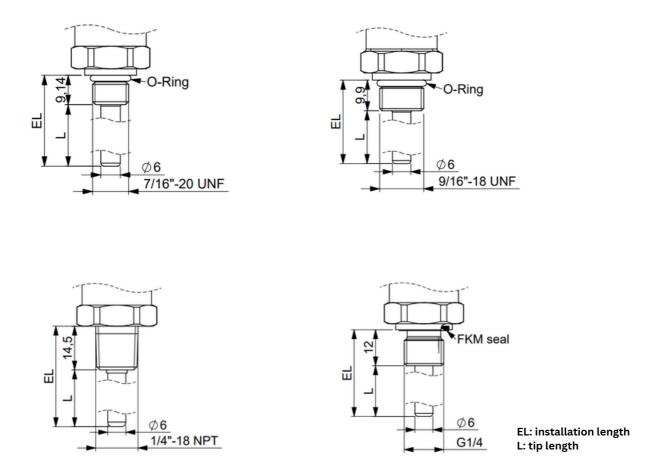
PinA

-

Cable

IP67

PROCESS CONNECTION





Before installation and operation, ensure that the appropriate pressure sensor has been selected in terms of pressure range, design and specific measuring conditions. Non compliance can result in serious injure and/or damage to the equipment.

WARNING: Prignitz Mikrosystemtechnik reserve the right to modify their products without notice to customers. It is imperative that we should be consulted over any particular use or application of our products and it is the responsibility of the buyer to establish, particularly through all the appropriate testes, that the product is suitable for the use or application. Under no circumstances will our warranty apply, nor shall we be held responsible for any application (such as any modification, addition, deletion, use in conjunction with other electrical or electronic components, circuits or assemblies, or any other unsuitable material or substance) which has not been expressly agreed by us prior to the sale of our products.

CUSTOMIZED SOLUTIONS

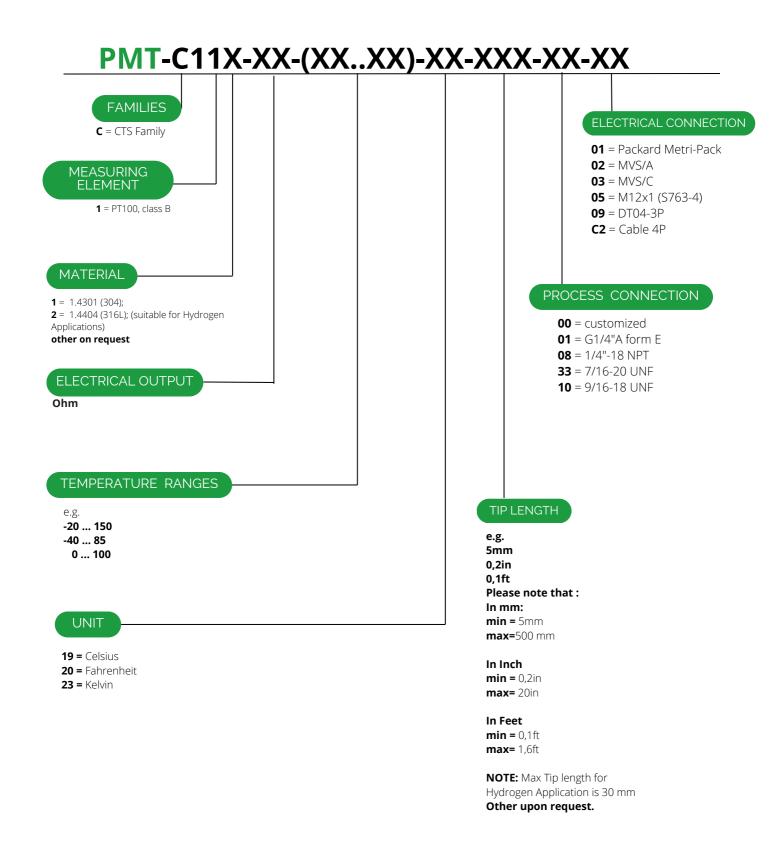
An indisputable advantage of the products from Prignitz Mikrosystemtechnik is that in addition to the specified parameters, a variety of specific customer requests can be implemented:

- other process and electrical connections available in a wide range of options
- analog output signals can be customized upon request.

Feel free to ask us. We are ready to implement individual solutions for you.

GALAXY OF CUSTOMIZED SOLUTIONS

HOW TO ORDER



GALAXY OF CUSTOMIZED SOLUTIONS

APPROVALS CERTIFICATE

CE Compliance: EMC directive 2014 / 30 / EU according in EN 61326-2-3 RoHS guideline: 2011/65/EU Approved according to the European Directive EC79/2009

PRIGNITZ-Mikrosystemtechnik GmbH is certified acc. to ISO 9001. We offer a multitude of products compliant with ATEX, IECEx, CSA, and other worldwide relevant qualifications.

CSA master contract:MC 267726 CSA certificate #:7008 0999



DISMOUNTING, RETURN AND DISPOSAL

Dismounting

Physical injuries and damage to property and the environment caused by hazardous media Upon contact with hazardous media (e.g. oxygen, acetylene, flammable or toxic substances), harmful media (e.g. corrosive, toxic, carcinogenic, radioactive), and also with refrigeration plants and compres- sors, there is a danger of physical injuries and damage to property and the environment.

- Should a failure occur, aggressive media with extremely high temperature and under high pressure or vacuum may be present at the instrument.
- Wear the requisite protective equipment.

Dismounting the instrument

- Depressurise and de-energise the pressure transmitter.
- Disconnect the electrical connection.
- Unscrew the pressure transmitter with a spanner using the spanner flats.

Return

Strictly observe the following when shipping the instrument:

All instruments delivered to Prignitz Mikrosystemtechnik must be free from any kind of hazardous substances (acids, bases, solutions, etc.) and must therefore be cleaned before being returned.

TRANSPORT, PACKAGING AND STORAGE

Transport

Check the pressure transmitter for any damage that may have been caused during transportation. Obvious damage must be reported immediately.

Packaging and storage

Do not remove packaging until just before mounting. Keep the packaging as it will provide optimum protection during transport (e.g. change in installation site, sending for repair).

Recommended conditions at the place of storage: $-40 \degree$ C to 125 \degree C (- 40 \degree F ... 257 \degree F)

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