

SMART TEMPERATURE TRANSMITTER TYPE APT-PZ

- ✓ Temperature measurement in the food processing and pharmaceutical industries.
- ✓ Stainless steel housing
- ✓ Programmable measurement range.
- ✓ Output signal 4+20mA two wire transmission.

Design and application area.

The smart temperature converter APT-28 is designed for temperature monitoring of various utilities. Measurements are taken by a platinum temperature gauge combined with a digital electronic converter that produces standard output signals 4 .. 20 mA. Heavy-duty and shockproof housing of the device is entirely made of Stainless steel which enables operation of the converter under tough environmental conditions. Owing to three different connectors that are available for the unit, namely Tri-Clamp, DIN or a welded adapter, measurements can be carried out under aseptic conditions. Typical applications of the converter include temperature measurements at plants of food processing and pharmaceutical industries.

Adjustment of immersion depth for the gauge.

The measuring sensor (thermometer resistor) is placed nearby the sensor tip. Thus, the tip must be placed as close as possible to the location where measurements are to be taken. Standard immersion of the converter is 15mm

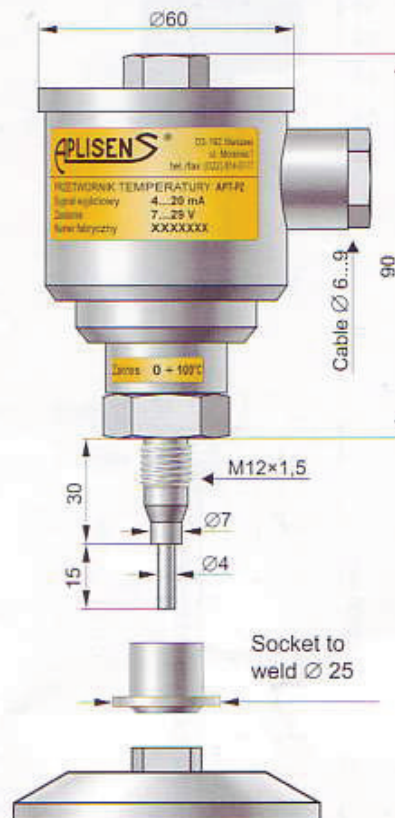
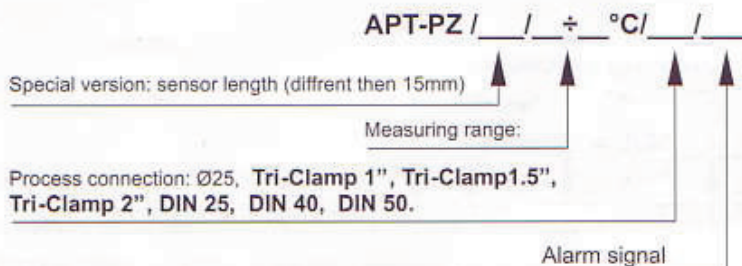
Configuration.

When a client defines, upon order placement, the required measurement range and status of the unit output when the sensor circuit is de-energized (open), Aplisens shall deliver the converter with desired configuration. Any amendments to the converter configuration should be subcontracted to the Aplisens company or can be made by clients on their own by means of the dedicated AT software running on a PC computer and communicating the device via an RS converter and the APT-28 adapter. The software makes it possible to alter the device configuration, including changes of measurement range, calibration of the converter, correction of the output characteristic for sections of measurement intervals and offsetting the entire characteristic.

Technical Data

Measuring range:	-40+140°C
Minimum set range:	30°C
Accuracy:	±0.16%
Error (deviation) due to ambient temperature variation.	0.1%/10°C
Error due to supply voltage changes	0.1%
Output signal:	4+20mA
Power supply:	7+29V DC
Load resistance:	$R[\Omega] < (U_{zss}[V]-7V)/0.023A$
Alarm signal:	23mA or 3.8mA, programmable
Ambient temperature:	-25+80°C
Material:	shield sensor (321ss) casing (304ss)

Ordering procedure



Socket- adapter to standard aseptic connectors: Tri-Clamp 1", Tri-Clamp1.5", Tri-Clamp 2" DIN 25, DIN 40, DIN 50

Electrical diagrams

