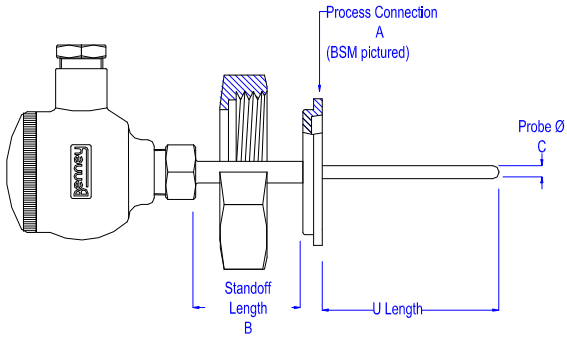
Temperature Transmitter

Type TT

Application.
Our Temperature Transmitters are designed for the harshest applications. They are particularly stable, with high resolution and can transmit over a long distance. Wetted parts and the standard housing are manufactured from 316L stainless steel ensuring exceptional resistance to chemical and moisture attack. A comprehensive range of process connections, measurement elements types and accuracies are available.

Configuration.
316L stainless steel probe with welded process connection, fitted to a terminal head (stainless steel standard). Insertion length and process connection are manufactured to customer's specification. The standard temperature sensor features mineral insulated element whilst the loop powered 4 to 20 mA output signal module features zero and span adjustment trim pots for any on site requirements. Programmable Pucks, HART Protocol and Universal Pucks are also available.



Terminal Housing.
Temperature probes can be fitted to the BTT large stainless steel housing (standard), BTT Ex d stainless steel, aluminium or bakelite housing. See http://www.benney.com.au/standard for standard terminal housing specifications or http://www.benney.com.au/exd for the Ex d terminal housing specifications**.**

"A"	Refer to process connections.
"B"	Instrument standoff between none and 150mm.
"C"	Probe diameter between ¼" and ½". All probes have ¼" tip for quick response. 6mm also available.

Process Connection.
¼'' BSPT male (1/4'' Probe only)
½'' BSPT male
1 ½'' BSM (flat face, with nut)
2'' BSM (flat face, with nut)
3'' BSM (flat face, with nut)
1 ½'' BSM (recessed face, with nut)
2'' BSM (recessed face, with nut)
3'' BSM (recessed face, with nut)
1 ½'' Triclover
2'' Triclover
½'' BSPP captive nut
Other process connections available upon request.

Transmitter Pucks.
See www.benney.com.au for temperature puck data specifications.

Measurement Elements / Accuracy.
Standard: +/- 0.06% @ 0°C.
High accuracy (Optional): +/-0.01% @ 0°C.

Wetted Materials.
316L stainless steel

Output Specification with Standard Transmitters
Output – 4/20mA loop powered, Max 30mA
Supply Voltage – 10 to 30V DC Reverse connection protected
Loop Volts sensivity - 10uA/volt
Temp. Stability – ZERO drift typ. 0.02%/°C FRO
SPAN typ. 0.005%/°C FRO
Ambient Temp – 0 to 70 °C operating at 24V supply
250 ohm load
Accuracy - +/-0.2˚C plus +/-0.2% rdg
Response – 100mS to reach 70% of final value
Span adjustment - 25˚C to 500˚C
Loop Resistance – 700R @ 24 V