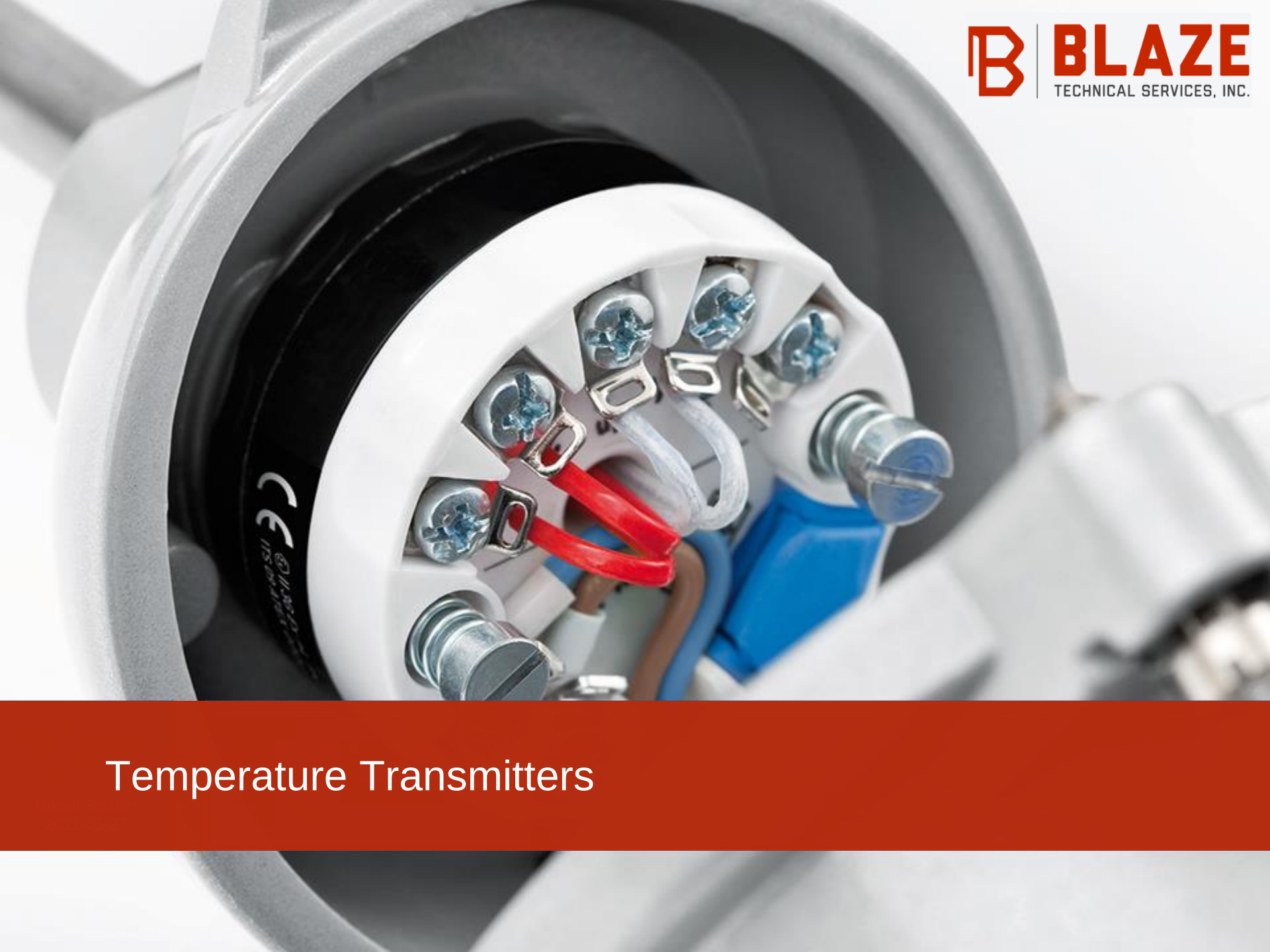

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Temperature Transmitters

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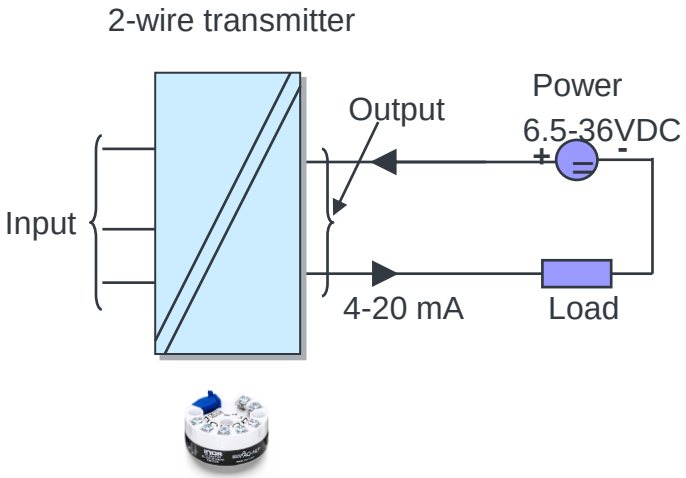
1. What is a Temperature Transmitter?
2. Why use a Temperature Transmitter?
3. Programmable Transmitters
4. 4-20mA Transmitter to Reciever Diagram
5. Contact Us

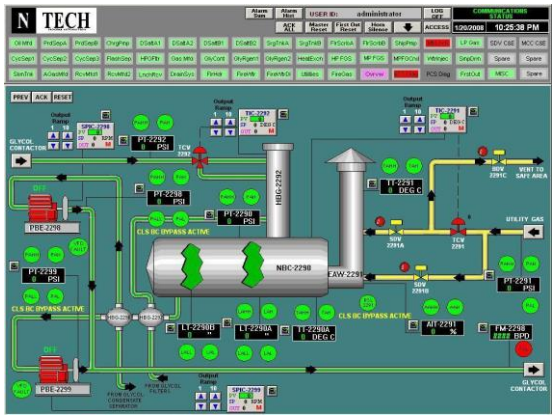
Temperature Transmitters

What is a Temperature Transmitter?

Signal Conditioner / Converter

- Input – Low Level Signal
  -Ω from RTD
  -mV from Thermocouple
- Output – High Level Signal to PLC/DCS
  -4-20mA
- 2-wire Transmitters
  -Loop-powered



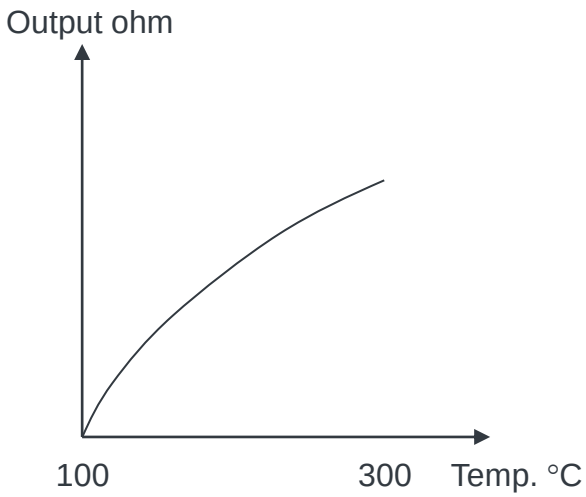


Why use a Temperature Transmitter?

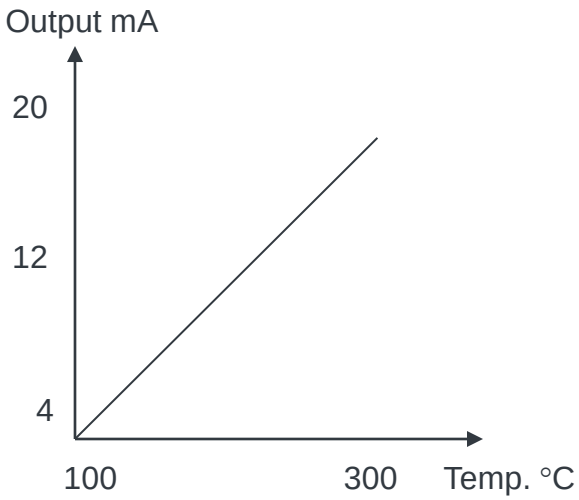
Benefits

- Signal Linearization / Custom Linearization
- Isolation – Thermocoouples

Pt100-sensor



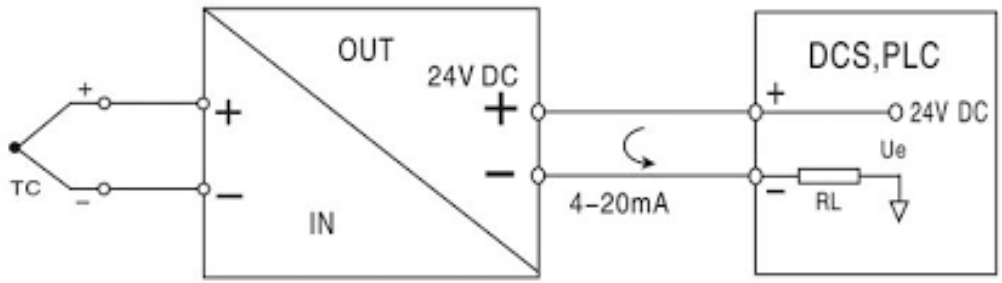
Temperature transmitter



Why use a Temperature Transmitter?

Benefits

- Long Distance Signal
- Noise Immunity
- Sensor / Transmitter Diagnostics
- Stability
- Accuracy



Why use a Temperature Transmitter?

Transmitter vs. Direct Wiring

- Leadwire Costs – Simple "Twisted-pair"
- Leadwire Compatibility – Thermocouples
- Allow for Local Indication – Plus Signal Transmission
- Readily Available 4-20mA Inputs in PLC/DCS Readily Available – Higher Cost for RTD / TC Inputs

PLC / DCS

Programmable Transmitters

MINIPAQ – H/L

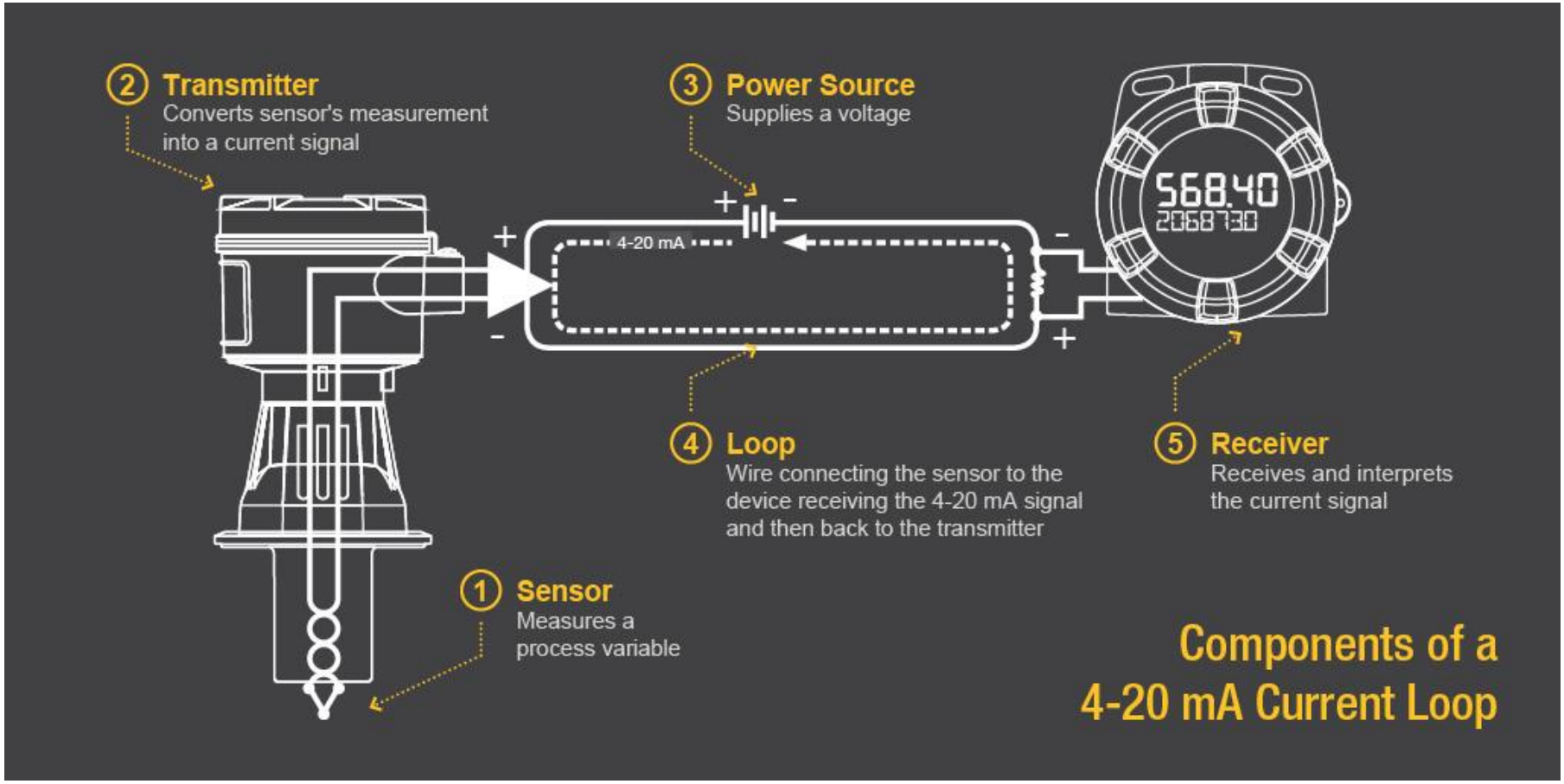
- RTD or Thermocouple* Input
- Non-isolated*
- ± 0.15% of Span Accuracy
- Sensor and System Error Correction Capability
- Competitive Pricing

Programmable Transmitters

C/R 330

- Universal Input (RTD, T/C, Ω, mV)
- 1500 VAC Isolation
- ± 0.08% of Span Accuracy
- Sensor and System Error Correction Capability
- 50-point Custom Linearization Capability
- Wireless Configuration Capability

4-20mA Tranmitter to Reciever Diagram



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