A family of loop-powered, “hockey-puck” RTD and thermocouple temperature transmitters in DIN B-form for head mounting, Model T51 and T55 transmitters carry FM and CSA approvals along with the CE Marking. All to allow installation and use in a variety of applications world-wide.

Models T51 and T55 are easily programmed with a PC using the Burns TP05 programming module and communication software. The T55 may also be programmed with your handheld HART® communicator* and both Models feature class-leading ± .05% of span accuracy.

When connected to Burns temperature sensors the T51 and T55 transmitters provide accurate and stable output that adds value to your process control. In addition, flexible programming features help control costs with the ability to stock one device and program it for all your needs. Finally, the DIN B form mounts easily in most connection heads or it may be panel-mounted — whatever your solution calls for.

### Features and Benefits

- Vibration and shock resistance
- Configurable to fit your application
- Provide “matching” capabilities with RTD for improved system accuracy
- HART programmable
- 0.05% accuracy
- PC programmable with TP05 communication software and programming module
- Full input-output isolation
- Custom input/linearization capability
- Configurable via a PC or HART Communicator
- RTD inputs: Pt100, Ni100
- Outputs: 2-wire, 4-20mA
- Same-day shipment available!

*DD files for the Burns T55 may be downloaded from the Burns website: [www.burnsengineering.com](http://www.burnsengineering.com)
Specifications

RTD and Thermocouple Input
Accuracy: ± 0.05% Span
For DIN Form B Sensor Head-Mounting
Vibration: IEC 60068-2-6 Test FC
Humidity: < 95% RH (non-cond.)
Sensor Error Detection (programmable output: 3.5 - 23mA)
Output signal range: 4 - 20mA
Programmable Response Time (1 - 60s)
FM and CSA Approvals
CE marking

Model T51 Specs
Supply Voltage: 7.2 – 35VDC
Warm-Up Time: 5 min
Communications Interface: Programming Module
Pt100 (-200° C to 850° C), min span 25° C

Model T55 Specs
Supply Voltage: 8.0 – 35VDC
Warm-Up Time: 30 sec
Communications Interface: Programming Module and HART® communicator
Pt100 (-200° C to 850° C), min span 10° C
RTD "Matching" Capable
Short-Circuit Detection

What will your next solution BE?
Durable temperature sensors that deliver accurate, stable and repeatable measurements. BE confident.
Trust Burns Engineering for the most creative solutions to your most challenging temperature-sensing needs.

For current model numbers and precise ordering information, visit burnsengineering.com and search > TRANSMITTERS