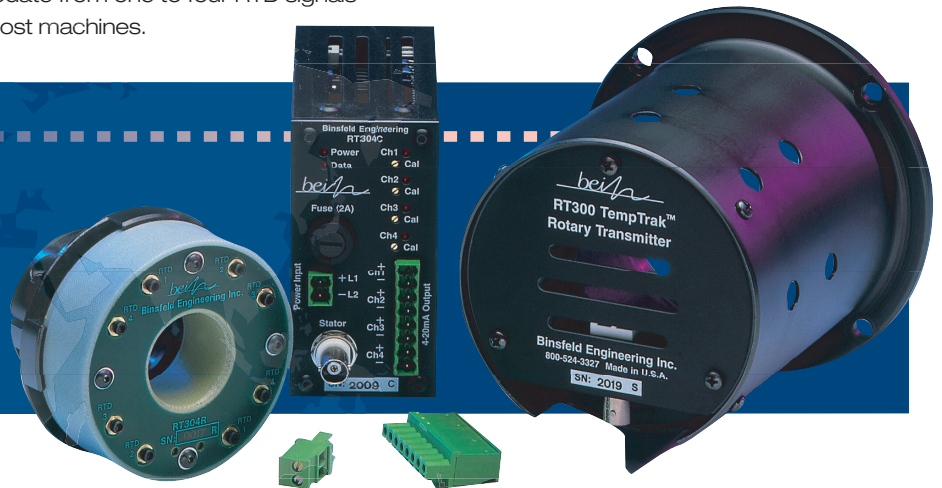


# RT300 | Rotary Temperature Transmitter

TempTrak® All-Digital Technology  
For Precise Godet Temperature Control

The RT300 Series Transmitter is an extremely reliable multi-channel godet temperature measurement system. The digital transmitter circuit and digital controller interface circuit are immune to electrical noise and drift. Generous 9 mm clearance between the rotating and stationary parts eliminate rubbing and impacting - a cause of failure in other designs. The stationary electronics are housed in a small DIN-rail mount enclosure to remove them from the harsh motor environment. Models are available to accommodate from one to four RTD signals in a variety of mechanical configurations to fit most machines.

RT301	Single-Zone
RT302	Two-Zone
RT303	Three-Zone
RT304	Four-Zone



## FEATURES

- Accurate** ■ Within  $\pm 0.3\%$  across entire sensing range.
- Robust** ■ Fully encapsulated rotating electronics with generous clearance between rotor and stator.
- Flexible** ■ Programmable for different sensors and different outputs.
- Versatile** ■ Mechanically configured to fit most roll motors.
- DIN-Rail Mount** ■ Controller Interface installs easily in instrumentation cabinet.
- Digital Circuitry** ■ Digital rotor and stationary circuitry immune to noise and drift.
- Multiplexed Channels** ■ One to four channel systems available.
- Intelligent** ■ Protects heater if sensor, transmitter or cable malfunctions.
- High Speed** ■ Designed to operate up to 10,000 RPM.
- Product Support** ■ Backed by BEI's reputation for the strongest customer support in the industry and a **full five-year warranty**.

BINSFELD ENGINEERING INC.

4571 W. MacFarlane Rd. ■ Maple City, MI 49664 ■ USA  
Phone: (+1) 231.334.4383 ■ Fax: (+1) 231.334.4903 ■ Toll Free: 800.524.3327 ■ [www.temprak.com](http://www.temprak.com)

Good. Better. Binsfeld.

# RT300 Rotary Temperature Transmitter

The RT300 series utilizes a digital transmitter circuit and digital controller interface circuit. Its inductive power and data transfer scheme is completely noncontact. Components are completely interchangeable and will handshake and adjust power levels as required. Different models are available to accommodate from one to four RTD signals.

## TYPICAL SPECIFICATIONS

<b>Number of Sensors:</b>	Models available for 1-4 sensors
<b>Sensor Input:</b>	PT100 RTD (100 $\Omega$ at 0°C, $\alpha$ = .00385, two wire) standard (other configurations available including nonstandard RTDs)
<b>Sensor Range:</b>	0° to 300°C standard (other configurations available)
<b>Sensor Connection: (Transmitter)</b>	#4-40 screw terminals with socket-head cap screws (designed for #4 ring terminals on customer sensor leads)
<b>Output Connection: (Controller Interface)</b>	Quick connect screw terminal block
<b>Output Signal:</b>	Discrete 4-20 mA current source (each channel) and/or frequency signal (Dienes and Rieter compatible)
<b>Accuracy:</b>	$\pm$ 0.3% span over operating range
<b>Ambient Temperature:</b>	
<b>Rotating Unit:</b>	0°C – 100°C
<b>Stationary Housing:</b>	0°C – 100°C
<b>Controller Interface:</b>	0°C – 85°C
<b>Humidity:</b>	0-90% RH, non-condensing
<b>Power Input:</b>	22-35 VDC or 17-27 VAC; 2A max, 0.5A nominal
<b>Rotor Speed:</b>	10,000 RPM maximum
<b>Weight:</b>	Rotating Unit: 2 lb. Stationary Housing: 3 lb. Controller Interface: 1 lb.

*Specifications subject to change without notice.*



BINSFELD ENGINEERING INC.

Good. Better. Binsfeld.