

RT360 | Rotary Temperature Transmitter

*TempTrak® All-Digital Technology
For Precise Godet Temperature Control*

The RT360 Series Transmitter is a versatile multi-channel temperature measurement system designed to operate with a variety of machine configurations and control systems. The standard RT360 output is a frequency signal (for Dienes process controllers). Optional output signals include voltage and 4-20 mA current (for use with standard process control systems). Generous 5 mm clearance between the rotating and stationary parts eliminate rubbing or impacting – a common failure cause in other designs. Digital circuitry in the rotating transmitter and the stationary receiver are immune to electrical noise and drift. Error detection modes protect heater from damage and expedite troubleshooting in the event of a sensor or other failure. Multiple mechanical configurations are available to fit most machines.

- Fits SwissTex (Rieter) rolls using Dienes controllers
- Frequency, voltage, 4-20 mA output signals available
- Multi-channel design – up to seven sensor inputs
- Multiple mechanical configurations available



FEATURES

- Accurate** ■ Within $\pm 0.1\%$ (0.3°C)
- Robust** ■ Fully encapsulated electronics with generous clearance between rotor and stator.
- Dienes Compatible** ■ A true drop-in replacement that fits existing shaft, works with existing wiring and process control systems.
- Versatile** ■ Selection of output signals including frequency, voltage and 4-20 mA current.
- Flexible** ■ Multiple mechanical configurations available.
- Digital Circuitry** ■ Maintains calibration and is immune to electrical noise and drift.
- Multi-channel** ■ One to seven channel systems available for one to seven RTD sensors.
- Intelligent** ■ Protects heater if sensor or transmitter malfunctions.
- Product Support** ■ Backed by BEI's reputation for the strongest customer support in the industry including a *two-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.temptrak.com

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RT360 Rotary Temperature Transmitter Series

TYPICAL SPECIFICATIONS

Rotor

Number of Sensors:	1 - 7
Input Sensor Type:	PT100 RTD ($100\ \Omega$ at 0°C , $\alpha = .00385$), standard
Sensor Range:	$0 - 300^{\circ}\text{C}$, standard
Speed:	10,000 RPM

Stator

Output Connection:	Fischer #DB-104 Z 040-80 (Mating Connector: Fischer #S-104 Z 040-130 +)
Output Signals:	Time multiplexed frequency signal (Dienes curve: 362.48 – 749.86 Hz)
Power Input:	11 – 18 VDC, 30 mA nominal, 100 mA maximum pulsed

General

Accuracy:	$\pm 0.3^{\circ}\text{C}$ at measured value of 150°C at 25°C ambient ($\pm 0.10\% \text{FS}$ for a 300°C range) $\pm 0.6^{\circ}\text{C}$ over 0 to 300°C measured value and 25 to 85°C ambient ($\pm 0.20\% \text{FS}$ for a 300°C range)
Operating Temperature:	$0 - 100^{\circ}\text{C}$
Rotor-Stator Spacing:	5 mm nominal (2.5 mm to 7.5 mm allowable)

Specifications subject to change without notice.



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